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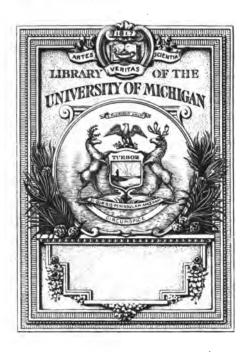
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Edward Muther of Edward Winthrop. Edward Monther

Gummere, John

## MATHEMATICAL TABLES:

DIFFERENCE

LATITUDE AND DEPARTURE;

LOGARITHMS,

FROM 1 TO 10,000;

AND

ARTIFICIAL SINES, TANGENTS, AND SECANTS.

STEREOTYPE EDITION, CAREFULLY REVISED AND CORRECTED.

## Philadelphia:

PUBLISHED BY KIMBER AND SHARPLESS,

NO. 93, MARKET-STREET.

1822.

Stereotyped by J. Howe, New-York

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6	6.00	0.03	6.00	0.05	6.60	0.08	- 6
7	7.00 8.00	0.03	7.00	0.06 0.07	7.00	0.09 0.10	7
8 9	8.00 9.00	0.03 0.04	8.00 9.00	0.07	8.00 9.00		8
10	10.00	0.04	10.00	0.09	10.00	0.13	104
11	11.00	0.05	11.00	0.10	11.00.	0.44	11
12	12.00	0.05	12.00	0.10	12400	0.16	12
13	13.00	0.06	13.00 14.00	0.11 0.12	13.00 14.00	0.17 0.18	13 14
14 15	14.00 15.00	0.00	15.00	0.12	15.00	0.20	15
16	16.00	0.07	16.00	0.14	16.00	0.21	46
17	17.00	0.07	17.00	0.15	17.00	0.22	17
18	18.00	0.08	18.00	0.16	18.00	10.24	18
19	19.00	0.08	19.00	0.17	19.00	0.25	19
20	20.00	0.09	20.00	0,17	20.00	0.26	20
21	21.00	0.09	21.00	0.18	21.00	0.27	21
22	22.00	0.10	22.00	0.19	22.00	0.29	22
23	23.00	0.10	23.00 24.00	0.20	23.00 24.00	0.30 0.31	23 24
24 25	24.00 25.00	0.10 0.11	25.00	0.22	25.00	0.33	25
26	26.00	0.11	26.00	0.23	26.00	0.34	26
27	27.00	0.12	27.00	0.24	27.00	0.35	27
28	28.00	. 0 . 12	28.00	0.24	28.00	0.37	28
29	29.00	0.13	29.00	0.25	29.00	0.38	29.
30	30.00	0.13	30.00	0.26	30.00	0.39	30
31	31.00	0.14	31.00	0.27	31.00	0.41	31
32	32.00	0.14	32.00	0.28	32.00	0.42	32 33
33	33.00	0.14 0.15	33.00 34.00	0.29 0.30	33.00 34.00	0.43 0.45	34
34 35	34.00 35.00	0.15	35.00	0.31	35.00	0.46	35
36	36.00	0.16	36.00	0.31	36.00	0.47	36
37	37.00	0.16	37.00	0.32	37.00	0.48	37
38	38.00	0.17	38.00	0.33	38.00	0.50	38
39	39.00	0.17	39.00	0.34	39.00	0.51	39
40	40.00	0.17	40.00	0.35	40.00	0.52	40
41	41.00	0.18	41.00	0.36	41.00	0.54	41
42	42.00	0.18	42.00	0937	42.00	0.55 0.56	42 43
43	43.00	Q. 19	43.00	0.38 0:38	43.00 44.00	0.58	43
44 45	44.00 45.00	0.19 0.20	44.00 45.00	0.39	45.00	0.59	45
46	46.00	0.20	46.00	0.40	46.00	0.60	46
47	47.00	0.21	47.00	0.41	47.00	0.62	47
48	48.00	0.21	48.00	0.42	48.00	0.63	48
49	49.00	0.21	49.00	0.43	49.00	0.64	49
50	50.00	0.22	50.00	0.44	50.00	65	50
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II.	55	55.00	0.24	55.00	0.48	55.00	0.72	55
ı	56	56.00	0.24	56.00	0.49	56.00	0.73	56
ı	57	57.00	0.25	57.00	0.50	57.00	0.75	57
ı	58 59	58.00 59.00	0.25 0.26	58.00 59.00	0.51 0.51	57.99 58.99	0.76 0.77	· 58 59
1	60	60.00	0.26.	60.00	0.52	59.99	0.79	60
1	61	-61.00	0.27	61.00	0.53	60.99	0.80	61
	62 .63	62.00 63.00	0.27 0.27	62.00 63.00	0.54	61.99 62.99	0.81 0.82	62
H	64 64	64.00	0.28	64.00	0.55 0.56	63.99	0.82	64
	65	65.00	0.28	65.00	0.57	64.99	0.85	65
I	66	66.00	0.29	66.00	0.58	65.99	0.86	66
H	67	67.00	0.29	67.00	0.58	66.99	0.88	67
1	<b>6</b> 8 <b>69</b>	68.00	0.30 0.30	68.00 69.00	0.59	67.99 68.99	0.89	68 69
ŀ	70	70.00	0.81	70.00	0.61	69.99	0.92	70
ľ	71	71.00	0.31	71.00	0.62	70.99	0.93	71
I	72 73	72.00	0.31 0.32	72.00 . 73.00	0.63	71.99 72.99	0.94	72
П	74	74.00	0.3z <b>2</b> €32	74.00	0.64 0.65	73.99	0.96 0.97	73 74
	75	75.00	0.83	75.00	0.65	74,99	0.98	75
	76	76.00	0.33	76,00	0.66	75.99	0.99	76
I	77	77.00 78.00	0.34	77.00	0.67.	76.99	1.01	77
H	78 79	79.00	0.34 0.34	78.00 79. <b>6</b> 0	0.68 0.69	77.99 78.99	1.02	78 79
	80	80.00	.0.35	80.00	0.70	79.99	1.05	80
ľ	81	81.00	0.35	81.00	0.71,	80.99	1.06	81
	82 83	82.00 83.00	0.36 0.36	82.00 83.00	0.72	81.99 82:99	1.07	82 83
	84	84.00	0.37	84.00	0.73	83.99	1.10	84
1	85	· 85 · 00	0.37	85.00	0.74	84.99	1.11	85
Ħ	86	86.00	<b>0</b> +38	86.00	0.75	85.99	1.13	86
	87 88	87.00 88.00	0.38 0.38	·87.00 88.00	0.76 0.77	86.99 87.99	1.14	87 88
	89	89.00	0.39	89.00	0.78	88.99	1.16	89
1	90	90.00	0.59	90,.00	0.79	89.99	1.18	90
	91 92	91.00	0.40	91.00	0.79	90.99 91.99	1,19	91
Ħ	93	92.00 93.00	0.40 0.41	92.00 93.00	0.80 0.81	92.99	1.20 1.22	92
	94	94.0	0.41	94.00	0.82	93.99	1.23	94
	95	95.00	0.41	95.00	0.83	94.99	1.24	95
	96 97	96.00	0.42	96.00	0.84	95.99 96.99	1.26 1.27	96
	98	97.00 98.00	0.42 0.43	97.00	0.85 0.86	97.99	1.28	97
	99	99.00	0.43	99.00	0.86	98.99	1.30	99
	100	100.00	0.44	100.00	0.87	99.99	1.31	100
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2 3	3.0	0.05	3.00	0.04	3.00	0.08	2.00 3.00	6.06	2 3	ı
4	4.00	0.07	4.00	0.09	4.00	<b>9</b> .10	4.00	0.09 0.12	4	ı
5,	5.00	0.09	5.00	0.03	5.00	0.13	5.00	0.12	5.	ı
6	6.00	0.10	6.00	6.13	6.00	0.16	6.00	0.18	6	۱
7	7.00	0.12	7.00	0.15	7.00	0.18	7.00	0.21	7	ı
8	8.00	0.14	8.00	0.17	8.00	0.21	8.00	8.25	8	ı
9	9.00	0.16	9.00	0.20	9.00	0.24	9.09	0.28	9	ı
10	10.00	0.17	10.00	0.22	10.60	0.26	10.00	0.31	10	ı
11	11.00	0.19	11.00	0.24	11.00	0.28	10.99	0.34	11	ı
12	12.00	0.21	12.00	0.26	12.00	0.31	11.99	0.37	12	ı
13	13.00	0.23	13.00	0.28	13:05	0.34	12.99	0.40	13	ı
114	14.00	0.24	14.00	0.31	14.00	0.37	13.99	0.43	14	۱
15	15.00	0.26	15.00	0.33	14.99	0.30	14.99	0.46	15	۱
16 17	16.00	0.28	16.00	0.35	15.99	0.42	15.99	0.49	16	ı
18	17.00	0.30	17.00 18.00	0.37 0.39	16.99 17.99	0.45	16.99 17.99	0.52	17	۱
19	19.00	0.33	19.00	0.41	18.99	0.50	18.99	0.55	18 19	ı
20	20.00	0.35	20.00	0.44	19.99	0.52	19.99	0.61	20	ı
21	21.00	0.37	21.00	0.46	20.99	0.55	20.99	9.64	21	۱
22	22,00	0.38	21.99	0.48	21.99	0.58	21.99	0.67	22	H
23	23.00	0.40	22.99	0.50	22.99.	0.60	22.99	<b>0.70</b>	23	I
24	24.00	0.42	23.99	0.52	23.99	0.63	23.99	0.73	24	ı
25	25.00	0.44	24.99	0.55	24.99	0.65	24.99	0.76	25	ı
26	26.00	0.45	25.99	0.57	25.99	0.68		0.79	26	П
27	27.00	0.47	26.99	0.59	26.99	0.71	26.99	0.83	27	I
28	28.00	0.49	27.99	0.61	27.99	0.73	27.99	0.86	28	П
29 30	29.00 30.00	0.51 0.52	28.99 29.99	0.63 0.65	28.99 29.99	0.76	28.99 29.99	0.89	29 30	I
31	31.00	0.54	30.99	0.68	30.99	0.81	30.99	0.95	31	ł
32	32.00	₩ 0.56	31.99	0.70	31.99	0.84	31.99	0.98	32	I
33	32.99	0.58	32.99	0.72	32.99	0.86	32.98	1.01	33	ľ
34	33.99	0.59	33.99	0.74	33.99	0.89	33.98	1.04	34	I
35	34.99	0.61	34.99	0.76	34.99	0.92	34.98	1.07	35	
36	35.99	0.63	35.99	0.79	35.99	0.94	35.98	1.10	36	ı
37	36.99	0.65	36.99	0.81	36.99	0.97	36.98	1.13	37	I
38	37.99	0.66	37.99	0.83	37.99	0.99	37.98	1.16	38	I
39 40	38.99	0.68 0.70	38.99 39.99	0.85 0.87	38.99 39.99	1.02 1.05	38.98 39.98	1.19	39 40	
41	40.99	0.72	40.99	0.89	40.99	1.07	40,98	1.25	41	۱
42	41.99	0.73	41.99	0.92	41.99	1.10	41.98	1.28	41	ı
43	42.99	0.75	42.99	0.94	42.99	1.13	42.98	1.31	43	I
44	43.99	0.77	43.99	0.96	43.99	1.15	3.98	1.34	44	۱
45	44.99	0.79	44.99	0.98	44.99	1.18	44.98	1,37	45	۱
46	45.99	0.80	45.99	1.00	45.99	1.20	45.98	1.40	46	ı
47	46.99	0.82	46.99	1.03	46.99	1.23	46.98	1.44	47	ı
48	47.99	0.84	47.99	1.05	47.98	1.26	47.98	1.47	48	ı
49	48.99	0.86	48.99	1.07	48.98	1.28	48.98	1.50	49	۱
50	49.99	0.87	49.99	1.09	49.98	1.'31	49.98	1,53	50	۱
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51	50.99	0.89	50.99	1.11	50.98	1.34	50.98	1.56	51
52	51.99	0.91	51.99	1.13	51.98	1.36	51.98	1.59	52
53	52.99 53.99	0.9¢	52.90 53 99	1.16	52.98 53.98	1.39 1.41	52.98 53.97	1.62 1.65	53 54
54 55	54. <b>99</b>	0.96	54.99	1.20	54.98	1.44	54.97	1.68	55
56	55.99	. 0.98	55.99	1.22	55.98	1.47	55.97	1.71	56
57	56.99	0.99	56.99	1:24	56.98	1.49	56.97	1.74	51
58	57.99 58.90	1.01	57.99 59.99	1.27	57.98 58.98	1.52 1.54	57.97 58.97	1.77 1.80	58 59
59 60-	59.99	1.05	69.99	1:31	59.88	1.57	59.97	1.83	60
61	60.99	1.06	60.99	1.33	60.98	1.60	60.97	1.86	61
62 63	61.99	1.08 1.10	61.99	1.35	61.98	1.62	61:97	1.89	62 63
64	63.99	1.12	63.98	1.40	63.98	1.68	63.97	1.95	64
65	64*99	1.13	64.98	1.42	64.98	1.70	64.97	1.99	65
66 67	65.99 <b>a</b>	1.15	65.98	1.44 1.46	65.98 66.98	1.73	65.97 66.97	2.02	66 67
68	67.99	1.19	67.98	1.48	67.98	1.78	67.97	2.08	68
69	68.99	1.20	68.98	1.51	68.98	1.80	68.97	2.11	69
70	69.99	1.22	69.98	1.53	69.98	1.83	69.97	2.14	70
71	70.99 71.99	1.24 1.26	70.98 71.98	1.55 1.57	70.98 71.98	1.86 1.88	76.97 71.97	- 2.17 2.20	71 72
73	72.99	1.27	72.98	1.59	72.97	1.91	72.97	2.23	73
74	73.99	1.29	73.98	1.61	73.97	1.94	73.97	2.26	74
75	74.99	1.31	74.98	1.64	74.97	1.96	74.97	2.29	75
76 77	75.99 76.99	1.33	75.98 76.98	1.66 1.68	75.97	1.99	75.96 76.96	2.32 2.35	76
78	77.99	1.36	77.98	1.70	77.97	2.04	77.96	2.38	78
79	78.99	1.38	78.98	1.72	78.97	2.07	78.96	2.41	79
80	79409	1:40	79.98	1.75	79.97	2.09	79.96	2.44	80
81	80.99	1.41	80.98	1.77	80.97	2.12	80.96	2.47	81
82 83	81.99 82.99	1.43	81.98	1.79 1.81	81.97	2.15 2.17	81.96 82.96	2.50 2.53	82 83
84	83.99	1.47	83.98	1.83	83.97	2.20	83.96	2.57	84
85	84.99	1.48		1.85	84.97	2.23	84.96	2.60	85
86 87	86.99	1.50	85.98 86.98	1.88	85.97 86.97	2.25 2.28	85.96 86.96	2.63 2.66	86 87
88	87.99	1.54	87.98	1.92	87.97	2.30	87.96	2.69	88
89	88.99	1.55	88.98	1.94	88.97	2.33	88.96	2.72	89
90	89.99	1.57	89.98	1.96	89.97	2.36	89.96	2.75	90
91	90.99	1.59	90.98	1.99	90.97	2.38	90.96	2.78	91
92 93	91.99	1.61	91.98 92.98	2.01 2.03	91.97 92.97	2.41 2.43	91.96 92.96	2.81 2.84	92
94	93.99	1.64	93.98	2.05	93.97	2.45	93.96	2.87	93
95	94.99	1.66	94.98	2.07	94.97	2.49.	94.96	2.90	95
96 97	95.99	1.68	95.98	2.09		2.51	95.96	2.94	96
98	96.99	1.69	96.98	2.12 2.14	96.97	2.54	96.95 97.95	2.96 2.99	97 98
99	98.98	1.73	98.98	2.16.	98.97	2.59	98.95	3.02	99
100	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	100
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1 2 3 4 5 6 8 9	1.00 2.00 3.00 4.00 5.00 6.00 7.00 7.99 8.99	0.03 0.07 0.10 0.14 0.17 0.21 0.24 0.28 0.31	1.00 2.00 3.00 4.00 5.00 6.00 6.99 7.99 8.99	0.04 0.08 0.12 0.16 0.20 0.24 0.27 0.31	1.00 2.00 3.00 4.00 5.00 5.99 6.99 7.99 8.99	0.04 0.09 0.13 0.97 0.22 0.26 0.31 0.35	1.00 _2.00 3.00 4.00 4.99 5.99 6.99 7.99 8.99	0.05 0.10 0.14 0.19 0.29 0.34 0.38 0.43	1 23 4 5 6 7 8 9
10	9.99	0.35	9.99	0.39	9.99	0.44	9.99	0.48	10
11 12 13 14 15 16 17 18 19 20	10.99 11.99 12.99 13.99 14.99 15.99 16.99 17.99 18.99 19.99	0.38 0.42 0.45 0.49 0.52 0.56 0.59 0.63 0.66 0.70	10.99 11.99 12.99 13.99 14.99 15.99 16.99 17.99 18.99 19.98	0.43 0.47 0.51 0.55 0.59 0.63 0.67 0.71 0.75	10.99 11.99 12.99 13.99 14.99 15.99 16.98 17.98 18.98 19.98	0.48 0.52 0.57 0.61 0.65 0:70 0.74 0.79 0.83 0.87	10.99 11.99 12.99 13.98 14.98 15.98 16.98 17.98 18.98 19.98	.0.53 0.58 0.62 0.67 0.72 0.77 0.82 0.86 0.91 0.96	11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30	20.99 21.99 22.99 23.99 24.98 25.98 26.98 27.98 28.98 29.98	0.73 0.77 0.80 0.84 0.87 0.91 0.94 0.98 1.01	20.98 21.98 22.98 23.98 24.98 25.98 26.98 27.98 28.98 29.98	0.82 0.26 0.90 0.94 0.98 1.02 1.06 1.10	20.98 21.98 22.98 23.98 24.98 25.98 26.97 27.97 28.97	0.92 0.96 1.00 1.05 1.09 1.13 1.18 1.22 1.26	20.98 21.97 22.97 23.97 24.97 25.97 26.97 27.97 28.97 29.97	1.01 1.06 1.10 1.15 1.20 1.25 1.30 1.34 1.39	21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40	30.98 31.98 32.98 33.98 34.98 35.98 36.98 37.98 38.98 39.98	1.08 1.12 1.15 1.19 1.22 1.26 1.29 1.33 1.36 1.40	30.98 31.98 32.97 33.97 34.97 35.97 36.97 37.97 38.97 39.97	1.22 1.26 1.30 1.33 1.37 1.41 1.45 1.49 1.53	30.97 31.97 32.97 33.97 34.97 35.97 36.96 37.96 38.96 39.96	1.35 1.49 1.44 1.48 1.53 1.57 1.61 1.66 1.70	30.96 31.96 32.96 33.96 34.96 35.96 36.96 37.96 38.96 39.95	1.49 1.54 1.58 1.63 1.68 1.78 1.82 1.87 1.92	31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50	40.98 41.97 42.97 43.97 44.97 45.97 46.97 47.97 48.97 49.97	1.43 1.47 1.50 1.54 1.57 1.61 1.64 1.68 1.71	40.97 41.97 42.97 43.97 44.97 45.96 46.96 47.96 48.96 49.96	1.61 1.65 1.69 1.73 1,77 1.81 1.85 1.88 1.92 1.96	40.96 41.96 42.96 43.96 44.96 45.96 46.96 47.95 48.95 49.95	1.77 1.83 1.88 1.92 1.96 2.01 2.05 2.09 2.14 2.18	40.95 41.95 42.95 43.95 44.95 45.95 46.95 47.95 48.94 49.94	1.97 2.02 2.06 2.11 2.16 2.21 2.25 2.30 2.35 2.40	41 42 43 44 45 46 47 48 49 50
Distance.	Dep. 88 I	Lat.		Lat. Deg.	Pep. 871	Lat. Deg.	Dep.	Deg.	Distance.

Distance.	2 I	Oeg.	21	Deg.	21	Deg.	24	Deg.	Distance
çê.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	è
51 53 54	50.97 51.97 52.97 53.97	1.78 1.81 1.85 1.88	50.96 51.96 52.96 53.96	2.00 2.04 2.08 2.12	50.95 51.95 52.95 53.95	2.22 2.27 2.31 2.36	50.94 51.94 52.94 53.94	2.45 2.50 2.54 2.59 2.64	51 52 53 54
55 56 57 58 59 60	54.97 55.97 56.97 57.96 58.96 59.96	1.92 1.95 1.99 2.02 2.06 2.09	54.96 55.96 56.96 57.96 58.95 59.95	2.16 2.20 2.24 2.28 2.32 2.36	54.95 55.95 56.95 57.94 58.94 59.94	2.40 2.44 2.49 2.53 2.57 2.62	54.94 55.94 56.93 57.93 58.93 59.93	2.64 2.69 2.78 2.78 2.83 2.88	55 56 57 58 59 60
61 62 63	60.96 61.96 62.96	2.13 2.16 2.20	60.95 61.95 62.95	2.39 2.43 2.47	60.94 61.94 62.94	2.66 2.70 2.75	60.93 61.93 62.93	2.93 2.97 3.02	61 62 63
64 65 66 67 68	63.96 64.96 65.96 66.96 67.96	2.23 2.27 2.30 2.34 2.37	63.95 64.95 65.95 66.95 67.95	2,51 2.55 2.59 2.63 2.67	63.94 64.94 65.94 66.94 67.94	2.79 2.84 2.88 2.92 2.97	63.93 64.93 65.92 66.92 67.92	3.07 3.12 3.17 3.21 3.26	64 65 66 67 68
69 70	68.96 69.96	2.41 2.44 2.48	68.95 69.95 70.95	2.71 2.75 2.79	68.93 69.93 70.93	3.01 3.05 3.10	68.92 69.92 70.92	3.31 3.36 3.41	69 70
72 73 74 75	71.96 72.96 73.95 74.95	2.51 2.55 2.58 2.62	71.94 72.94 73.94 74.94	2.83 2.87 2.91 2.94	71.93 72.93 73.93 74.93	3.14 3.18 3.23 3.27	71.92 72.92 73.91 74.91	3.45 3.50 3.55 3.60	72 73 74 75
76 77 78 79 80	75.95 76.95 77.95 78.95	2.65. 2.69 2.72 •2.76	75.94 76.94 77.94 78.94	2.98 3.02 3.06 3.10	75.93 76.93 78.93 78.92	3.31 3.36 3.40 3.45	75.91 76.91 77.91 78.91	3.65 43.70 3.74 3.79	76 77 78 79 80
81 82	79.95 80.95 81.95	2.79 2.83 2.86	79.94 80.94 81.94	3.14 3.18 3.22	79.92 80.92 81.92	3.49 3.53 3.58	79.91 80.91 81.91	3.84 3.89 3.93	81 82
83 84 85 86	82.95 83.95 84.95 85.95	2.90 2.93 2.97 3.00	82.94 83.94 84.93 85.93	3.26 3.30 3.34 3.38	82.92 83.92 84.92 85.92	3.62 3.66 3.71 3.75	82.90 83.90 84.90 85.90	3.98 4.03 4.08 4.13	83 84 85 86
87 88 89 90	86.95 87.95 88.95 89.95	3.04 3.07 3.11 3.14	86.93 87.93 88.93 89.93	3.42 3.45 3.49 3.53	86.92 87.92 88.92 89.91	3.79 3.84 3.88 3.93	86.90 87.90 88.90 89.90	4.17 4.22 4.27 4.32	87 88 89 90
91 92 93 94	90.95 91.94 92.94 93.94	3.18 3.21 3.25 3.28	90.93 91.93 92.93 93.93	3.57 3.61 3.65 3.69	90.91 91.91 92.91 93.91	3.97 4.01 4.06 4.10	90.90 91.89 92.89 93.89	4.37 4.41 4.46 4.51	91 92 93 94
95 96 97 98 99	94.94 95.94 96.94 97.94 98.94	3.32 3.35 3.39 3.42 3.46	94.93 95.93 96.93 97.92 98.92	3.73 3.77 3.81 3.85 3.89	94.91 95.91 96.91 97.91 98.91	4.14 4.19 4.23 4.27 4.32	94.89, 95.89 96.89 97.89 98.89	4.56 4.61 4.65 4.70 4.75	95 96 97 98 99
100	99.94	3.49	99.92	3.93.	99.91	4.36	99.88	4.80	100
Distance.	Bep.   	Lat.	Dep. Lat. 871 Deg.		871 1	Lat.	Dep.   871	Lat. Deg.	Distance.

Distance	31	)eg.	9 <del>1</del> 1	Deg.	34 1	Deg.	-3 <del>1</del> I	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dęp.	nce.
1 2	1.00 2.00	0.05 0.10	1.00 2.00	0.06 0.11	1.00 2.00	0.06 0.12	1.00 2.00	0.06 0.13	1
3	3.00	0.16	3.00	0.17	2.99	0.12	2.99	0.13	.3
4	3.99 4.99	0.21	3.89	0.23	3.99	0.24	3.99	0.26	4
5		0.26	4.99	0.28	4.99	0.31		0.33	5
6	.99	0.31	5.99	0.34	5.99	0.37	5.99	0.39	6
8	7.99	0.37 0.42	6.99 7.99	0.40 0.45	6.99 7.99	0.43 0.49	6.99 7.98.	0.46	8
9	<b>78.99</b>	0.47	8.99	0.51	8.98	0.55	8.98	0.59	9
10	9.99	0.52	9.98	0.57	9.98	0.61	9,98	0.65	10
11	10.98	0.58	10.98	0.62	10.98	0.67	10.98	0.72	11
12 13	11.98 12.98	0.63 0.68	11.98 12.98	0.68 0.73	11.98 12.98	0.73	11.97 12.97	0.78	12 13
14	13.98	0.73	13.98	0:79	13.97	0.15	13.97	0.92	14
15	14.98	0.79	14.98	0.85	14.97	0.92	14.97	0.98	15
. 16	15.98	0.84	15.97	0.91	15.97	0.98	15.97	1.05	16
17	16.98 17.98	0.89	16.97 17.97	0.96 1.02	16.97 17.97	1.04	16.96 17.96	1:11	17
18 19	18.98	0.99	18.97	1.02	18.96	1.16	18.96	1.18	18 19
20	19.97	1.05	19.97	1.13	19.96	1.22	19.96	1.31	20
21	20.97	1.10	20.97	1.19	20.96	1.28	20.96	1.37	21
22 23	21.97 22.97	1.15 1.20	21.96 22.96	1.25 1.30	21.96 22.96	1.34	21.95 22.95	1.44	22 23
24	23.97	1.26	23.96	1.36	23.96	1.47	23.95	1.57	24
25	24.97	1.31	24.96	1.42	24.95	1.53	24.95	1.64	25
26	25.96	1.36	25.96	1.47	25.95	1.59	25.94	1.70	26
27	26.96	1.41	26.96	1.53	26.95	1.65	26.94	1.77	27
28 29	27.96 28.96	1.47 1.52	27.95 28.95	1.64	27.95 28.95	1.71 1.77	27.94 28.94	1.83	28 29
30	29.96	1.57	29.95	1.70	29.94	1.83	29.94	1.96	30
31	30.96	1.62	30.95	1.76	30.94	1.89	30.93	2.03	31
32 33	31.96 32.95	1.67	31.95 32.95	1.81 1.87	31.94	1.95	31.93 32.93	2.09 2.16	32
34	33.95	1.78	33.95	1.93	33.94	2.08	33.93	2.22	34
35	34.95	1.83	34.94	1.98	34.93	2.14	34.92	2.29	35
36	35.95	1.88	35.94	2.04	.35.93	2.20	35.92	2.35	36
37 38	36.95	1.94	36.94	2.10	36.93 37.93	2.26	36.92	2.42	37
39	37.95 38.95	1.99 2.04	37.94 38.94	2.15 2.21	38.93	2.32 2.38	37.92 38.92	2.49 2.55	38 39
40	39.95	2.09	39.94	2.27	39.93	2.44	39.91	2.62	40
41	40.94	2.15	40.93	2.32	40.92	2.50	40.91	2.68	41
42 43	41.94	2.20	41.93	2.38 2.44	41.92	2.56 2.63	41.91	2.75	42 43
43	42.94 43.94	2.25 2.30	42.93 43.93	2.44	42.92 43.92	2.69	42.91 43.91	2.81 2.88	43
45	44.94	2.36	44.93	2.55	44.92	2.75	44.90	2.94	45
46	45.94	2.41	45.93	2.61	45.91	2.81	45.90	3.01	46
47	46.94	2.46	46.92	2.66	46.91	2.87	46.90	3.07	47
48 49	47.93 48.93	2.51 2.56	47.92 48.92	2.72 2.78	47.91 48.91	2.93 2.99	47.90 48.90	3.14 3.20	48 49
50	48.93	2.62	48.92	2.18	49.91	3.05	49.89	3.27	50
DCe.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ace.
Distance.	87 ]	Deg.	.86‡	86‡ Deg.		Deg.	861	Deg.	Distance.

Dis	3 I	Deg.	31 1	Deg.	3 <del>}</del> ·I	Deg.	31 1	eg.	Dist
Distance.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Distance.
51 52 53 54 55 56 57 58 59	50.93 51.93 52.93 53.93 54.92 55.92 56.92 57.92 58.92	2.67 2.72 2.77 2.83 2.88 2.93 2.98 3.04 3.09	50.92 51.92 52.91 53.91 54.91 55.91 56.91 57.91 58.91	2.89 2.95 3.00 3.06 3.12 3.17 3.23 3.34	50.90 51.90 52.90 53.90 54.90 55.90 56.89 57.89 58.89	3.11 3.17 3.24 3.30 3.36 3.42 3.48 3.54	50.89 51.89 52.89 53.88 54.88 55.88 56.88 57.88	3.34 3.40 3.47 3.53 3.60 3.66 3.73 3.79	51 52 53 54 55 56 57 58
60 61 62 63 64 65 66 67 68 69 70	59.92 60.92 61.92 62.91 63.91 64.91 65.91 66.91 67.91 68.91 69.90	3.14 3.19 3.24 3.30 3.45 3.45 3.51 3.56 3.61	60.90 61.90 62.90 63.90 64.90 65.89 66.89 67.89 68.89 69.89	3.46 3.51 3.57 3.63 3.69 3.74 3.80 3.86 3.91 3.97	60.89 61.88 62.88 63.88 64.88 65.88 66.88 67.87 68.87 69.87	3.66 3.72 3.79 3.85 3.91 3.97 4.03 4.09 4.15 4.21 4.27	60.87 61.87 62.87 63.86 64.86 65.86 66.86 67.85 68.85 69.85	3.99 4.05 4.12 4.19 4.25 4.32 4.38 4.45 4.51	60 61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80	70.90 71.90 72.90 73.90 74.90 75.90 76.89 77.89 78.89 79.89	3.72 3.77 3.82 3.87 3.93 3.98 4.03 4.08 4.13 4.19	70.89 71.88 72.88 73.88 74.88 75.88 76.88 77.87 78.87 79.87	4.03 4.08 4.14 4.20 4.25 4.31 4.37 4.42 4.48 4.54	70.87 71.87 72.86 73.86 74.86 75.86 76.86 77.85 78.85 79.85	4.33 4.40 4.46 4.52 4.58 4.64 4.70 4.76 4.82 4.88	70.85 71.85 72.84 73.84 74.84 75.84 76.84 77.83 78.83 79.83	4.64 4.71 4.77 4.84 4.91 4.97 5.04 5.10 5.17 5.23	71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89 90	80.89 81.89 82.89 83.88 84.88 85.88 86.88 87.88 88.88	4.24 4.29 4.34 4.40 4.45 4.55 4.61 4.66 4.71	80.87 81.87 82.87 83.86 84.86 85.86 86.86 87.86 88.86 89.86	4.59 4.65 4.71 4.76 4.82 4.88 4.93 4.99 5.05 5.10	80.85 81.85 82.85 83.84 84.84 85.84 86.84 87.84 88.83 89.83	4.94 5.01 5.07 5.13 5.19 5.25 5.31 5.37 5.43 5.49	80.83 81.82 82.82 83.82 84.82 85.82 86.81 87.81 88.81 89.81	5.30 5.36 5.43 5.49 5.56 5.62 5.69 5.76 5.82 5.89	81 82 83 84 85 86 87 88 89 90
91 92 93 94 95 96 97 98 99 100	90.88 91.87 92.87 93.87 94.87 95.87 96.87 97.87 98.86 99.86	4.76 4.81 4.87 4.97 5.02 5.08 5.13 5.18 5.23	90.85 91.85 92.85 93.85 94.85 95.85 96.84 97.84 98.84 99.84	5.16 5.22 5.27 5.33 5.39 5.44 5.50 5.61 5.67	90.83 91.83 92.83 93.82 94.82 95.82 96.82 97.82 98.82 99.81	5.56 5.62 5.68 5.74 5.80 5.86 5.92 5.98 6.04 6.10	90.81 91.80 92.80 93.80 94.80 95.79 96.79 97.79 98.79 99.79	5.95 6.02 6.08 6.15 6.21 6.28 6.34 6.41 6.47 6.54	91 92 93 94 95 96 97 98 99 100
Distance	Dep. 87 I	87 Deg.   Dep.   Lat.   86 Deg.			Dep. 86½	Lat. Deg.	Dep. 861	Lat. Deg.	Distance.

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Distance.	4 [	eg.	41	Deg.	4 <u>1</u> I	eg.	41	Deg.	Distance
ce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
1	1.00	0.07	1.00	0.07	1.00	0.08	1.00	0.08	1
2	2.00	0.14	1.99	0.15	1.99	0.16	1.99	0.17	2 3
3 4	2.99 3.99	0.21 0.28	2.99 3.99	0.22	2.99 3.99	0.24 0.31	2.99 3.98	0.25 0.33	4
5	4.99	0.25	4.99	0.37	4.98	0.31	4.98	0.33	5
6	5.99	0.42	5.98	0.44	5.98	0.47	5.98	0.50	6
7	6.98	0.49	6.98	0.52	6.98	0.55	6.97	0.58	7
8	7.98	0.56	7.98	0.59	7.98	0.63	7.97	0.66	8
9 10	8.98 9.98	0.63 0.70	8.98 9.97	$\begin{array}{c} 0.67 \\ 0.74 \end{array}$	8.97 9.97	0.71 0.78	8.97 9.97	0.75 0.83	9 10
11	10.97	0.77	10.97	0.82	10.97	0.86	10.96	0.91	11
12	11.97	0.84	11.97	0.89	11.96	0.94	11.96	0.99	12
13 14	12.97 13.97	0.91 0.98	12.96 13.96	0.96 1.04	12.96 13.96	1.02	12.96 13.95	1.08	13 14
15	14.96	1.05	14.96	1.04	14.95	1.18	14.95	1.10	15
16	15.96	1.12	15.96	1.19	15.95	1.26	15.95	1.32	16
17	16.96	1.19	16.95	1.26	16.95	1.33	16.94	1.41	17
18	17.96	1.26	17.95	1.33	17.94	1.41	17.94	1.49	18
19 20	18.95 19.95	1.33 1.40	18.95 19.95	1.40 1.48	18.94 19.94	1.49 1.57	18.93 19.93	1.57	19 20
21	20.95	1.46	20.94	1.56	20.94	1.65	20.93	1.74	21
22	21.95	1.53	21.94	1.63	21.93	1.73	21.92	1.82	22
23	22.94	1.60	22.94	1.70	22.93	1.80	22.92	1.90	23
24 25	23.94 d 24.94	1.67 1.74	23.93 24.93	1.78 1.85	23.93 24.92	1.88 1.96	23.92	1.99	24 25
26	25.94	1.81	25.93	1.93	25.92	2.04	25.91	2.15	26
27	26.93	1.88	26.93	2.00	26.92	2.12	26.91	2.24	27
28	27.93	1.95	27.92	2.08	27.91	2.20	27.90	2.32	28
29 30	28.93° 29.93	2.02 2.09	28.92	2.15 2.22	28.91 29.91	2.28 2.35	28.90 29.90	2.40	29 30
31	30.92	2.16	30.91	2.30	30.90	2.43	30.89	2.57	31
32	31.92	2.23	31.91	2.37	31.90	2.51	31.89	2.65	32
33	32.92	2.30	32.91	2.45	32.90	2.59	32.89	2.73	33
34	33.92	2.37	33.91	2.52	33.90	2.67	33.88	2.82	34
35 36	34.91 35.91	2.44 2.51	34.90 35.90	2.59 2.67	34.89 35.89	2.75 2.82	34.88 35.88	2.90 2.98	35 36
37	36.91	2.58	36.90	2.74	36.89	2.90	36.87	3.06	37
38	37.91	2.65	37.90	2.82	37.88	2.98	37.87	3.15	38
39 40	38.90 39.90	2.72 2.79	38.89 39.89	2.89 2.96	38.88 39.88	3.06	38.87 39.86	3.23 3.31	39 40
41	40.90	2.86	40.89	3.04	40.87	3.22	40.86	3.40	41
42	41.90	2.93	41.88	3.11	41.87	3.30	41.86	3.48	42
43	42.90	3.00	42.88	3.19	42.87	3.37	42.85	3.56	43
44	43.89	3.07	43.88	3.26	43.86	3.45	43.85	3,64	44
45 46	44.89	3.14	44.88	3.33	44:86	3.53	44.85	3.73	45 46
40	45.89 46.89	3.21 3.28	45.87 46.87	3.41 3.48	46.86	3.61 3.69	45.84 46.84	3.81	47
48	47.88	3.35	47.87	3.56	47.85	3.77	47.84	3.97	48
49	48.88	3.42	48.87	3.63	48.85	3.84	48.83	4.06	49
50	49.88	3.49	49.86	3.71	49.85	3.92	49.83	4.14	50
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	86 I	Deg.	853	Deg.	851	Deg.	851	Deg.	Distance.
	1		1	,	· ·	,	·		. — 1

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Distance	4 D	eg.	41 ]	Deg.	41 ]	Deg.	43 ]	, Deg.	Dist
ance.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Distance.
51 52	50.88 51.87	3.56 3.63	50.86 51.86	3.78 3.85	50.84 51.84	4.00 4.08	50.82 51.82	4.22 4.31	51 52
53	52.87	3.70	52.85	3.93	52.84	4.16	52.82	4.39	53
54	53.87	3.77	53.85	4.00	53.83	4.24	53.81	4.47	54
55 56	54.87 55.86	3.84 3.91	54.85 55.85	4.08 4.15	54.83 55.83	4.32 4.39	54.81	4.55 4.64	55 56
57	56.86	3.98	56.84	4.22	56.82	4.47	56.80	4.72	57
58	57.86	4.05	57.84	4.30	57.82	4.55	57.80	4.80	58
59	58.86	4.12	58.84	4.37	58.82	4.63	58.80	4.89	59
60	59.85	4.19	59.84	4.45	59.82	4.71	59.79	4.97	60
61 62	60.85 61.85	4.26 4.32	60.83 61.83	4.52	60.81 61.81	4.79 4.86	60.79 61.79	5.05 5.13	61 62
63	62.85	4.39	62.83	4.67	62.81	4.94	62.78	5.22	63
64	63.84	4.46	63.82	4.74	63.80	5.02	63.78	5.30	64
65	64.84	4.53	64.82	4.82	64.80	5.10	64.78	5.38	65
66	65.84	4.60	65.82	4.89	65.80	5.18	65.77	5.47	66
67	66.84	4.67	66.82	4.97	66.79	5.26	66.77	5.55	67
68 69	67.83	4.74	67.81 68.81	5.04	67.79	5.34	67.77 68.76	5.63 5.71	68
70	68.83 69.83	4.81 4.88	69.81	5.11 5.19	68.79 69.78	5.41 5.49	69.76	5.80	69 70
71	70.83	4.95	70.80	5.26	70.78	5.57	70.76	5.88	71
72	71.82	5.02	71.80	5.34	71.78	5.65	71.75	5.96	72
73 74	72.82	5.09 5.16	72.80	5.41	72.77	5.73	72.75	6.04	73 74
75	73.82 74.82	5.23	73.80 74.79	5.48 5.56	73.77 74.77	5.81 5.88	73.75 74.74	6.13	75
76	75.81	5.30	75.79	5.63	75.77	5.96	75.74	6.29	76
77	76.81	5.37	76.79	5.71	76.76	6.04	76.74	6.38	77
78	77.81	5.44	77.79	5.78	77.76	6.12	77.73	6.46	73
79	78.81	5.51	78.78	5.85	78.76	6.20	78.73	6.54	79
80	79.81	5.58	79.78	5.93	79.75	6.28	79.73	6.62	80
81	80.80	5.65	80.78	6.00	80.75	6.36	80.72	6.71	81
82	81.80	5.72	81.78	6.08	81.75	6.43	81.72	6.79	82
83 84	82.80 83.80	5.79 5.86	82.77 . 83.77	6.15	82.74	6.51	82.71 83.71	6.87	83
85	84.79	5.93	84.77	6.30	83.74 84.74	6.67	84.71	7.04	85
*86	85.79	6.00	85.76	6.37.	85.73	6.75	85.70	7.12	-86
87	86.79	6.07	86.76	6.45	86.73	6.83	86.70	7.20	87
88	87.79	6.14	87.76	6.52	87.73	6.90	87.70	7.29	88
89	88.78	6.21	88.76	6.60	88.73	6.98	88.70	7.37	89
90	89.78	6.28	89.75	6.67	89.72	7.06	89.69	7.45	90
91	90.78	6.35	90.75	6.74	90.72	7.14	90.69	7.54	91
92	91.78	6.42	91.75	6.82	91.72	7.22	91.68	7.62	92
93 94	92.77	6.49	92.74	6.89	92.71	7.30	92.68	7.70	93
95	93.77 94.77	6.56 6.63	93.74 94.74	6.97 7.04	93.71	7.38 7.45	93.68 94.67	7.78	94 95
96	95.77	6.70	95.74	7.11	94.71	7.53	95.67	7.95	96
97	96.76	6.77	96.73	7.19	96.70	7.61	96.67	8.03	97
98	97.76	6.84	97.73	7.26	97.70	7.69	97.66	8.12	98
99	98.76	6.91	98.73	7.34	98.69	7.77	98.66	8.20	99
100	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	100
nce.	Dep.	Lat.	Dep.	·Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance	86 1	Deg.	. 85 <del>≩</del>	Deg.	85 <del>]</del>	Deg.	85 <del>1</del>	Deg.	Distance.

			<u> </u>						_
Distance.	5 D		5 <del>1</del> I		5 <u>1</u> I		5 <del>1</del> I		Distance
ě	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ë
1	1.00	0.09	1.00	0.09	1.00	0.10	0.99	0.10	1
2 3	1.99 2.99	0.17 0.26	1.99 2.99	0.18 0.27	1.99 2.99	0.19 0.29	1.99	0.20 0.30	2 3
4	3.98	0.35	3.98	0.37	3.98	0.38	3.98	0.40	4
5	4.98	0.44	4.98	0.46	4.98	0.48	4.97	0.50	4 5 . 6
6 7	5.98 6.97	0.52 0.61	5.97 6.97	0.55 0.64	5.97 6.97	0.58 0.67	5.97 6.96	0.60 0.70	. 6
8	7.97	0.70	7.97	0.73	7.96	0.76	7.96	0.80	8
9	8.97	0.78	8.96	0.82	8.96	0.86	8.95	0.90	9
10	9.96	0.87	9.96	0.92	9.95	0.96	9.95	1.00	10
11	10.96	0.96 1.05	·10.95 11.95	1.01 1.10	10.95 11.94	1.05 1.15	10.94 11.94	1.10 1.20	11 12
12 13	11.95 12.95	1.13	12.95	1.19	12.94	1.15	12.93	1.30	13
14	13.95	1.22	13.94	1.28	13.94	1.34	13.93	1.40	14
15 16	14.94 15.94	1.31 1.39	14.94 15.93	1.37 1.46	14.93 15.93	1.44	14.92 15.92	1.50 1.60	15 16
17	16.94	1.48	16.93	1.56	16.92	1.63	16.91	1.70	17
18	17.93	1.57	17.92	1.65	17.92	1.73	17.91	1.80	18
19 20	18.93 19.92	1.66 1.74	18.92	1.74	18.91	1.82	18.90 19.90	1.90 2.00	19 20
					19.91	<b> </b>	ļ		
21 22	20.92 21.92	1.83 1.92	20.91 21.91	1.92 2.01	20.90	2.01 2.11	20.89 21.89	2.10 2.20	21 22
23	22.91	2.00	22.90	2.10	22.89	2.20	22.88	2.30	23
24	23.91	2.09	23.90	2.20	23.89	2.30	23.88	2.40	24
25	24.90	2.18	24.90	2.29	24.88	2.40	24.87	2.50	25
26 27	25.90 26.90	2.27 2.35	25.89 26.89	2.38 2.47	25.88 26.88	2.49	25.87 26.86	2.60	26 27
28	27.89	2.44	27.88	2.56	27.87	2.68	27.86	2.81	28
29 30	28.89 29.89	2.53 2.61	28.88	2.65	28.87	2.78	28.85 29.85	2.91 3.01	29 30
<b>I</b>		ļ	29.87	<u> </u>	29.86	ļ		ļ	
31 32	30.88	2.70 2.79	30.87 31.87	2.84	30.86 31.85	2.97 3.07	30.84	3.11	31 32
33	32.87	2.88	32.86	3.02	32.85	3.16	32.83	3.31	33
34	33.87	2.96	33.86	3.11	33.84	3.26	33.83	3.41	34
35 36	34.87 35.86	3.05 3.14	34.85 35.85	3.20	34.84 35.83	3.35 3.45	34.82 35.82	3.51	35°
37	36.86	3.22	36.84	3.39	36.83	3.55	36,81	3.71	37
38 39	37.86	3.31	37.84	3.48	37.83	3.64	37.81	3.81	38
40	38.85	3.40	38.84 39.83	3.57 3.66	38.82 39.82	3.74	38.80	3.91	39 40
41	40.84	3.57	40.83	3.75	40.81	3.93	40:79	4.11	41
42	41.84	3.66	41.82	3.84	41.81	4.03	41.79	4.21	42
43	42.84	3.75	42.82	3.93	42.80	4.12	42.78	4.31	43
44 45	43.83	3.83	43.82 44.81	4.03	43.80 44.79	4.22	43.78 44.77	4.41	44 45
46	45.82	4.01	45.81	4.21	45.79	4.41	45.77	4.61	46
47	46.82	4.10	46.80	4.30	46.78	4.50	46.76	4.71	47
48 49	47.82	4.18	47.80 48.79	4.39	47.78 48.77	4.60	47.76 48.75	4.81	48
50	49.81	4.36	49.79	4.58	49.77	4.79	49.75	5.01	50
JCe.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ıce.
Distance	85	Deg.	843	Deg.	841	Deg.	841	Deg.	Distance.

U	E T	Deg.	£1 1	Deg.	51 T	Deg.	54 1	Deg	D
Distance	51								Distance.
Ĉ.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	8
. 51 52	50.81 51.80	4.44 4.53	50.79 51.78	4.67 4.76	50.77 51.76	4.89 4.98	50.74 51.74	5.11 5.21	51 52
53	52.80	4.62	52.78	4.85	52.76	5.08	52.73	5.31	53
54	53.79	4.71	53.77	4,94	53.75	5.18	53.73	5.41	54
55	54.79	4.79	54.77	5.03	54.75	5.27	54.72	5.51	55
56 57	55.79 .56.78	4.88 4.97	55.77 56.76	5.12 5.22	55.74 56.74	5.37 5.46	55.72 56.71	5.61 5.71	56 57
58	57.78	5.06	57.76	5.31	57.73	5.56	57.71	5.81	58
59	58.78	5.14	58.75	5.40	58.73	5.65	58.70	5.91	59
60	59.77	5.23	59.75	5.49	59.72	5.75	59.70	6.01	60
61 62	60.77 61.76	5.32 5.40	60.74 61.74	5.58 5.67	60.72 61.71	5.85 5.94	60.69 61.69	6.11 6.21	61
63	62.76	5.49	62.74	5.76	62.71	6.04	62.68	6.31	63
64	63.76	5.58	63.73	5.86	63.71	6.13	63.68	6.41	64
65 66	64.75	5.67 5.75	64.73 65.72	5.95 6.04	64.70 65.70	6.23	64.67 65.67	6.51	65
67	65.75 66.75	5.84	66.72	6.04	66.69	6.42	66.66	6.71	66
68	67.74	5.93	67.71	6.22	67.69	6.52	67.66	6.81	68
69	68.74	6.01	68.71	6.31	68.68	6.61	68.65	6.91	69
70	69.73	6.10	69.71	6.41	69.68	6.71	69.65	7.01	70
71	70.73	6.19	70.70	6.50	70.67	6.81	70.64	7.11	71
72 73	71.73 72.72	6.28. 6.36	71.70 72.69	6.59 6.68	71.67	6.90 7.00	71.64 72.63	7.21 7.31	72 73
74	73.72	6.45	73.69	6.77	73.66	7.09	73.63	7.41	74
75	74.71	6.54	74.69	6.86	74.65	7.19	74.62	7.51	75
76 77	75.71 76.71	6.62	75.68	6.95	75.65	7.28	75.62	7.61	76
78	77.70	6.71 6.80	76.68	7.05 7.14	76.65 77.64	.7.38 7.48	76.61 77.61	7.71	77
79	78.70	6.89	78.67	7.23	78.64	7.57	78.60	7.91	79
80	79.70	6.97	79.66	7.32	79.63	7.67	79.60	8.02	80
81	80.69	7.06	80.66	7.41	80.63	7.76	80.59	8.12	81
82 83	81.69 82.68	7.15 7.23	81.66 82.65	7.50 7.59	81.62 82.62	7.86 7.96	81.59 82.58	8.22 8.32	82
84	83.68	7.32	83.65	7.69	83.61	8.05	83.58	8.42	84
85	84.68	7.41	84.64	7.78	84.61	8.15	84.57	8.52	85
86	85.67	7.50	85.64	7.87	85.60	8.24	85.57	8.62	86
87 88	86.67 87.67	7.58 7.67	86.64 87.63	7.96 8.05	86.60 87.59	8.34 8.43	86.56 87.56	8.72	87
89	88.66	7.76	88.63	8.14	88.59	8.53	88.55	8.92	89
90	89.66	7.84	89.62	8.24	89.59	8.63	89.55	9.02	90
91	90.65	7.93	90.62	8.33	90.58	8.72	90.54	9.12	91
92	91.65	8.02	91.61	8.42	91.58	8.82	91.54	9.22	92
93 94	92.65 93.64	8.11 8.19	92.61 93.61	8.51 8.60	92.57	8.91 9.01	92.53 93.53	9.32	93
95	94.64	8.28	94.60	8.69	94.56	9.11	94.52	9.42	95
96	95.63	8.37	95.60	8.78	95.56	9.20	.95.52	9.62	96
97 98	96.63 97. <b>6</b> 3	8.45	96.59	8.88	96.55	9.30	96.51	9.72	97
99	98.62	8.54 8.63	97.59 98.59	8.97 9.06	97.55 98.54	9.39 9.49	97.51 98.50	9.82 9.92	98
100	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep. Lat.		ice.
Distance	85 I	Deg.	841	Deg.	841	Deg.	841	Deg.	Distance.

Di	6 I	eg.	61	Deg.	6 <u>1</u> I	eg.	61	Deg.	Di
Distance							<b></b>		Distance.
۴	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ě
1 2	0.99 1.99	0.10 0.21	0.99 1.99	0.11 0.22	0.99	0.11 0.23	0.99 1.99	0.12 0.24	1 2
3	2.98	0.31	2.98	0.33	2.98	0.34	2.98	0.35	3
4 5	3.98 4.97	0.41 0.52	3.98 4.97	0.44 0.54	3.97 4.97	0.45 0.57	3.97 4.97	0.47	4 5
6	5.97 6.96	0.63 0.73	5.96	0.65 0.76	5.96 6.96	0.68	5.96	0.71	6
8	7.96	0.73	6.96 7.95	0.87	7.95	0.79 0.91	6.95 7.94	0.82	8
9 10	8.95 9.95	0.94 1.05	8.95 9.94	0.98 1.09	8.94 9.94	1.02 1.13	8.94 9.93	1.06 1.18	9 10
11	10.94	1.15	10.93	1.20	10.93	1.25	10.92	1.29	11,
12 13	11.93 •12.93	1.25 1.36	11.93 12.92	1.31 1.42	11.92 12.92	1.36 1.47	11.92 12.91	1.41 1.53	12 13
14 15	13.92 14.92	1.46 1.57	13.92 14.91	1.52 1.63	13.91 14.90	1.59 1.70	13.90 14.90	1.65 1.76	14 15
16.	15.91	1.67	15.90	1.74	15.90	1.81	15.89	1.88	16
17 18	16.91 17.90	1.78 1.88	16.90 17.89	1.85 . 1.96	16.89 17.88	1.92 2.04	16.88 17.88	2.00 2.12	17
19	18.90	1.99 2.09	18.89	2.07	18.88	2.15	18.87	2.23	19.
20	19.89	2.20	19.88	2.18	19.87	2.26	19.86	2.35	20
22	20.88 21.88	2.30	20:88 21.87	2.29 2.40	21.86	2.38 2.49	20.85 21.85	2.47	21
23 24	22.87 23.87	2.40 2.51	22.86 23.86	2.50 2.61	22.85 23.85	2.60 2.72	22.84 23.83	2.70 2.82	23 24
25	24.86	2.61	24.85	2.72	24.84	2.83	24.83	2.94	25
26 27	25.86 26.85	2.72 2.82	25.85 26.84	2.83 2.94	25.83 26.83	2.94 3.06	25.82 26.81	3.06 3.17	26 27
28	27.85	2.93	27.83	3.05	27.82	3.17	27.81	3.29	28
29 30	28.84 29.84	3.03 3.14	28.83 29.82	3.16 3.27	28.81 29.81	3.28 3.40	28.80 29.79	3.41 3.53	29 30
31 32	30.83 31.82	3.24 3.34	30.82 31.81	3.37 3.48	30.80 31.79	3.51 3.62	30.79 31.78	3.64 3.76	31 32
33	32.82	3.45	32.80	3.59	32.79	3.74	32.77	3.88	33
34 35	33.81 34.81	3.55 3.66	33.80 34.79	3.70 3.81	33.78 34.78	3.85 3.96	33.76 34.76	4.00	34 35
36 37	35.80	3.76 3.87	35.79	3.92	35.77	4.08	35.75	4.23	36
38	36.80 37.79	3.97	36.78 37.77	4.03 4.14	36.76 37.76	4.19 4.30	36.75 37.74	4.35	37
39 40	38.79 39.78	4.08 4.18	38.77 39.76	4.25 4.85	38.75 39.74	4.41 4.53	38.73 39.72	4.58 4.70	39 40
41	40.78	4.29	40.76	4.46	40.74	4.64	40.72	4.82	41
42 43	41.77	4.39 4.49	41.75 42.74	4.57 4.68	41.73	4.76 4.87	41.71	4.94 5.05	42
44	43.76	4.60	43.74	4.79	43.72	4.98	43.70	5.17	44
45 46	44.75 45.75	4.70 4.81	44.73 45.73	4.90 5.01	44.71	5.09 5.21	44.69 45.68	5.29 5.41	45 46
47 48	46.74 47.74	4.91 5.02	46.72 47.71	5.12 5.23	46.70 47.69	5.32	46.67 47.67	5.52	47 48
49	48.73	5.12	48.71	5.34	48.69	5.43 5.55	48.66	5.64 5.76	49
50	49.73	5.23	49.70	5.44	49.68	5.66	49.65	5.88	50
Distance	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Distance.
Dist	84 1	Deg.	834	Deg.	831	Deg.	831	Deg.	Dist

Distance	6 E	eg.	61	Deg.	63	Deg.	. 61	Deg.	Distance
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
51 52	50.72 51.72	5.33 5.44	50.70 51.69	5.55 5.66	50.67 51.67	5.77 5.89	50.65 51.64	5.99 6.11	51 52
53	52.71	5.54	52.68	5.77	52.66	6.00	52.63	6.23	53
54	53.70	5.64	53.68	5.88	53.65	6.11	53.63	6.35	54
55	54.70	5.75	54.67	5.99	54.65	6.23	54.62	6.46	55
56	55.69	5.85	55.67	6.10	55.64	6.34	55.61	6.58	56
57	56.69	5.96	56.66	6.21	56.63	6.45	56.60 57.60	6.70	57
58 59	57.68 58.68	6.06 6.17	57.66 58.65	6.31 6.42	57.63 58.62	6.57	58.59	6.82	58 59
60	59.67	6.27	59.64	6.53	59.61	6.79	59.58	7.05	60
61	60.67	6.38	60.64	6.64	60.61	6.91	60.58	7.17	61
62	61.66	6.48	61.63	6.75	61.60	7.02	61.57	7.29	62
63 64	62.65 63.65	6.59 6.69	62.63 63.62	6.86 6.97	62.60	7.13 7.25	62.56 63.56	7.40	63 64
65	64.64	6.79	64.61	7.08	64.58	7.36	64.55	7.64	65
66	65.64	6.90	65.61	7.19	65.58	7.47	65.54	7.76	66
67	66.63	7.00	66.60	7.29	66.57	7.58	66.54	7.88	67
68	67.63	7.11	67.60	7.40	67.56	7.70	67.53	7.99	68
69	68.62	7.21	68.59	7.51	68.56	7.81	68.52	8.11	69
70	69.62	7.32	69.58	7.62	69.55	7.92	69.51	-8.23	70
71	70.61	7.42	70.58	7.73	70.54	8.04	70.51	8.35	71
72	71.61	7.53	71.57	7.84	71.54	8.15	71.50	8.46	72
73	72.60	7.63	72.57	7.95	72.53	8.26	72.49	8.58	73
74.	73.59	7.74	73.56	8.06	73.52	8.38	73.49	8.70	74
75 76	74.59 75.58	7.84 7.94	74.55 75.55	8.17 8.27	74.52 75.51	8.49 8.60	74.48	8.82	76
77	76.58	8.05	76.54	8.38	76.51	8.72	76.47	9.05	77
78	77.57	8.15	77.54	8.49	77.50	8.83	77.46	9.17	78
79	78.57	8.26	78.53	8.60	78.49	8.94	78.45	9.29	79
80	79.56	8.36	79.53	8.71	79.49	9.06	79.45	9.40	80
81	80:56	8.47	80.52	8.82	80.48	9.17	80.44	9.52	81
82	81.55	8.57	81.51	8.93	81.47	9.28	81.43	9.64	82
83	82.55	8.68	82.51	9.04	82.47	9.40	82.42	9.76	83
84	83.54	8.78	83.50	9.14	83.46	9.51	83.42	9.87	84
85 86	84.53 85.53	8.88 8.99	84.50 85,49	9.25 9.36	84.45 85.45	9.62 9.74	84.41 85.40	9.99	85
87	86.52	9.09	86.48	9.47	86.44	9.14	86.40	10.11	87
88	87.52	9.20	87.48	9.58	87.43	9.96	87.39	10.34	88
89	88.51	9.30	88.47	9.69	88.43	10.08	88.38	10.46	89
90	89.51	9.41	89.47	9.80	89.42	10.19	89.38	10.58	90
91	90.50	9.51	90.46	9.91	90.42	10.30	90.37	10.70	91
92	91.50	9.62	91.45	10.02	91.41	10.41	91.36	10.81	92
93	92.49	9.72	92.45	10.12	92.40	10.53	92.36	10.93	93
94	93.49	9.83	93.44	10.23	93.40	10.64	93.35	11.05	94
95 96	94.48	9.93	94.44	10.34	94.39	10.75	94.34	11.17	95 96
97	95.47 96.47	10.03 10.14	95.43 96.42	10.45 10.56	95.38 96.38	10.87 10.98	95.33 96.33	11.28 11.40	97
98	97.46	10.14	97.42	10.56	97.37	11.09	97.32	11.40	98
99	98.46	10.35	98.41	10.78	98.36	11.21	98.31	11.64	99
100	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance	84 I	Deg.	831 Deg.		83½ Deg.		831 Deg.		Distance.

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Distance.	7 1	Deg.	71	Deg.	71/2 ]	Deg.	72	Deg.	Distance.
Če.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
1 2	0.99	0.12 0.24	0.99	0.13 0.25	0.99 1.98	0.13 0.26	0.99 1.98	0.13	1
3	2.98	0.27	2.98	0.23	2.97	0.39	2.97	0.27	2
4	3.97	0.49	3.97	0.50	3.97	0.52	3.96	0.54	3 4
5	4.96	0.61	4.96	0.63	4.96	0.65	4.95	0.67	5
6 %	5.96 6.95	0.73	5.95 ° 6.94	0.76 0.88	5.95	0.78	5.95 6.94	0.81	6
8	7.94	0.97	7.94	1.01	7.93	1.04	7.93	1.08	8
9	8-93	1.10	8.93	1.14	8.92	1.17	8.92	1.21	9
10	9,93	1.22	9.92	1.26	9.91	1.31	9.91	1.35	10
11	10.92	1.34 • 1.46	10.91	1.39	10.91	1.44 1.57	10.90 11.89	1.48	11
12 13	11.91 12.90	1.58	11.90 12.90	1.51 1.64	11.90 12.89	1.70	12.88	1.75	12 13
14	13.90	1.71	13.89	1.77	13.88	1.83	13.87	1.89	14
15	14.89	1.83	.14.88	1.89	14.87	1.96	14.86	2.02	15
16 17	15.88 16.87	1.95 2.07	15.87 16.86	2.02 2.15	15.86 16.85	2.09 2.22	15.85 16.84	2.16 2.29	16 17
18	17.87	2.19	17.86	2.27	17.85	2.35	17.84	2.43	18
19	18.86	2.32	18.85	2.40	18.84	2:48	18.83	2.56	19
20	19.85	2.44	19.84	2.52	19.83	2.61	19.82	2.70	20
21	20.84	2.56	20.83	2.65	20.82	2.74	20.81	2.83	21
22 23	21.84 22.83	2.68 2.80	21.82 22.82	2.78 2.90	21.81 22.80	2.87 3.00	21.80 22.79	2.97 3.10	22
24	23.82	2.92	23 81	3.03	23.79	3.13	23.78	3.24	24
25	24.81	3.05	24.80	3.15	24.79	3.26	24.77	3.37	25
26	25.81	3.17	25.79	3.28	25.78	3.39	25.76	3.51	26
27 28	26.80 27.79	3.29 3.41	26.78 27.78	3.41 3.53	26.77 27.76	3.52 3.65	26.75 27.74	3.64	27 28
29	28.78	3.53	28.77	3.66	28.75	3.79	28.74	3.91	29
30	29.78	3.66	29.76	3.79	29.74	3.92	29.73	4.05	30
31.	30.77	3.78	30.75	3.91	30.73	4.05	30.72	4.18	31
32 33	31.76 32.75	3.90 4.02	31.74 32.74	4.04 4.16	31.73 32.72	4.18 4. <del>31</del>	31.71 32.70	4.32	32 33
34	33.75	4.14	33.73	4.29	33.71	4.44	33.69	4.45	34
35	34.74	4.27	34.72	4.42	34.70	4.57	34.68	4.72	35
36	35.73	4.39	35.71	4.54	.35.69	4.70	35.67	4.85	36
37 38	36.72 37.72	4.51 4.63	36.70 37.70	4.67	36.68 37.67	4.83 4.96	36.66 37.65	4.99 5.12	37 38
39	38.71	4.75	38.69	4.92	38.67	5.09	38.64	5.26	39
40	39.70	4.87	39.68	5.05	39.66	5.22	39.63	5.39	40
41	40.70	5.00	40.67	5.17	40.65	5.35	40.63	5.53	41
42	41.69	5.12	41.66	5.30	41.64	5.48	41.62	5.66	42
43 44	42.68 43.67	5.24 5.36	42.66 43.65	5.43 5.55	42.63	5.61 5.74	42.61 43.60	5.80 5.93	43 44
45	44.67	5.48	44.64	5.68	44.62	5.87	44.59	6.07	45
46	45.66	5.61	45.63	5.81	45.61	6.00	45.58	6.20	46
47 48	46.65	5.73	46.62	5.93 6.06	46.60 47.59	6.13	46.57	6.34	47 48
49	47.64 48.63	5.85 5.97	47.62 48.61	6.18	48.58	6.27 6.40	47.56 48.55	6.61	49
50	49,63	6.09	49.60	6.31	49.57	6.53	49.54	6.74	50
ce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ce.
Distance.	83 I	Deg.	824	Deg.	821	Deg.	821	Deg.	Distance.
Ĺ		•			·	· · · · · · · · · · · · · · · · · · ·			

Distance	7 1	Deg.	71 3	Deg.	71 1	Deg.	72 ]	Deg.	Distance
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
51 52 53 54 55 56 57 58 59 60	50.62 51.61 52.60 53.60 54.59 55.58 56.58 57.57 58.56 59.55	6.22 6.34 6.46 6.58 6.70 6.82 6.95 7.07 7.19 7.31	50.59 51.58 52.58 53.57 54.56 55.55 56.54 57.54	6.44 6.56 6.69 6.81 6.94 7.07 7.19 7.32 7.45 7.57	50.56 51.56 52.55 53.54 54.53 55.52 56.51 57.50	6.66 6.79 6.92 7.05 7.18 7.31 7.44 7.57 7.70 7.83	50.53 51.53 52.52 53.51 54.50 55.49 56.48 57.47 58.46 59.45	6.88 7.01 7.15 7.28 7.42 7.55 7.69 7.82 7.96 8.09	51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70	60.55 61.54 62.53 63.52 64.52 65.51 66.50 67.49 68.49 69.48	7.43 7.56 7.68 7.80 7.92 8.04 8.17 8.29 8.41 8.53	60.51 61.50 62.50 63.49 64.48 65.47 66.46 67.46 68.45 69.44	7.70 7.82 7.95 8.08 8.20 8.33 8.46 8.58 8.71 8.83	60.48 61.47 62.46 63.45 64.44 65.44 66.43 67.42 68.41 69.40	7.96 8.09 8.22 8.35 8.48 8.61 8.75 8.88 9.01	60.44 61.43 62.42 63.42 64.41 65.40 66.39 67.38 68.37 69.36	8.23 8.36 8.50 8.63 8.77 8.90 9.04 9.17 9.30	61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80	70.47 71.46 72.46 73.45 74.44 75.43 76.43 77.42 78.41 79.40	8.65 8.77 8.90 9.02 9.14 9.26 9.38 9.51 9.63 9.75	70.43 71.42 72.42 73.41 74.40 75.39 76.38 77.38 78.37 79.36	8.96 9.09 9.21 9.34 9.46 9.59 9.72 9.84 9.97	70.39 71.38 72.38 73.37 74.36 75.35 76.34 77.33 78.32 79.32	9.27 9.40 9.53 9.66 9.79 9.92 10.05 10.18 10.31	70.35 71.34 72.33 73.32 74.31 75.31 76.30 77.29 78.28 79.27	9.57 9.71 9.84 9.98 10.11 10.25 10.38 10.52 10.65 10.79	71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89 90	80.40 81.39 82.38 83.37 84.37 85.36 86.35 87.34 88.34 89.33	9.87 9.99 10.12 10.24 10.36 10.48 10.60 10.72 10.85 10.97	80.35 81.34 82.34 83.33 84.32 85.31 86.30 87.30 88.29 89.28	10.22 10.35 10.47 10.60 10.73 10.85 10.98 11.11 11.23 11.36	80.31 81.30 82.29 83.28 84.27 85.26 86.26 87.25 88.24 89.23	10.57 10.70 10.83 10.96 11.09 11.23 11.36 11.49 11.62 11.75	80.26 81.25 82.24 83.23 84.22 85.21 86.21 87.20 88.19 89.18	10.92 11.06 11.19 11.33 11.46 11.60 11.73 11.87 12.00 12.14	81 82 83 84 85 86 87 88 89 90
91 92 93 94 95 96 97 98 99 100	90.32 91.31 92.31 93.30 94.29 95.28 96.28 97.27 98.26 99.25	11.09 11.21 11.33 11.46 11.58 11.70 11.82 11.94 12.07 12.19 Lat.	90.27 91.26 92.26 93.25 94.24 95.23 96.22 97.22 98.21 99.20 Dep.	11.48 11.61 11.74 11.86 11.99 12.12 12:24 12:37 12.49 12.62 Lat.	90.22 91.21 92.20 93.20 94.19 95.18 96.17 97.16 98.15 99.14 Dep.	11.88 12.01 12.14 12.27 12.40 12.53 12.66 12.79 12.92 13.05	90.17 91.16 92.15 93.14 94.13 95.12 96.11 97.10 98.10 99.09	12.27 12.41 12.54 12.68 12.81 12.95 13.08 13.22 13.35 13.49 Lat.	91 92 93 94 95 96 97 98 99 100
Distance.	83 I	eg.	823	Deg.	821	Deg.	821	Deg.	Distance.

	<del> </del>								
Distance.	8 [	eg.	8 <del>1</del> I	eg.	8 <u>1</u> I	eg.	8 <b>}</b> I	eg.	Distance.
ŝ	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
1 2	0.99 1.98	0.14 0.28	0.99 1.98	0.14 0.29	0.99 1.98	0.15 0.30	0.99 1.98	0.15 0.30	1
3	2.97	0.42	2.97	0.43	2.97	0.44	2.97	0.46	2 3 4
4	3.96	0.56	3.96	0.57	3.96	0.59	3.95	0.61	4
5	4.95	0.70	4.95	0.72	4.95	0.74	4.94	0.76	5 6 7
6 7	5.94 6.93	0.84	5.94 6.93	0.86 1.00	5.93 6.92	0.89 1.03	5.93 6.92	0.91 1.06	7
8	7.92	1.11	7.92	1.15	7.91	1.18	7.91	1.22	8
9	8.91	1.25	8.91	1.29	8.90	1.33	8.90	1.37	9
10	9.90	1.39	.9.90	1.43	9.89	1.48	9.88	1.52	10
11 12	10.89 11.68	1.53 1.67	10.89 11.88	1.58 1.72	10.88 11.87	1.63 1.77	10.87 11.86	1.67 1.83	11 12
13	12.87	1.81	12.87	1.87	12.86	1.92	12.85	1.98	13
14	13.86	1.95	13.86	2.01	13.85	2.07	13.84	2.13	14
15	14.85	2.09	14.85	2,15	14.84	2.22	14.83	2.28	15
16 17	15.84 16.83	2.23 2.37	15.84 16.83	2.30 2.44	15.82 16.81	2.36 2.51	15.81 16.80	2.43	16 17
18	17.82	2.51	17.81	2.58	17.80	2.66	17.79	2.74	18
19	18.82	2.64	18.80	2.73	18.79	2.81	18.78	2.89	19
20	19.81	2.78	19.79	2.87	19.78	2.96	19.77	3.04	20
21 22	20.80	2.92 3.06	20.78 21.77	3.01 3.16	20.77 21.76	3.10 3.25	20.76 21.74	3.19 3.35	21 22
23	22.78	3.20	22.76	3.30	22.75	3.40	22.73	3.50	23
24	23.77	3.34	23.75	3.44	23.74	3.55	23.72	3.65	24
25	24.76	3.48	24.74	3.59	24.73	3.70	24.71	3.80	25
26 27	25.75 26.74	3.62 3.76	25.73 26.72	3.73 3.87	25.71 26.70	3.84	25.70 26.69	3.96	26 27
28	27.73	3.90	27.71	4.02	27.69	4.14	27.67	4.26	28
29	28.72	4.04	28.70	4.16	28.68	4.29	28.66	4.41	29
30	29.71	4.18	29.69	4.30	29.67	4.43	29.65	4.56	30
31	30.70	4.31 4.45	30.68 31.67	4.45	30.66 31.65	4.58 4.73	30.64 31.63	4.72	31
32 33		4.45	32.66	4.74	32.64	4.13	32.62	5.02	32 33
34		4.73	33.65	4.88	33.63	5.03	33.60	5.17	34
35		4.87	34.64	5.02	34.62	5.17	34.59	5.32	35
36 37		5.01 5.15	35.63 36.62	5.17 5.31	35.60 36.59	5.32	35.58 36.57	5.48 5.63	36 37
38		5.29	37.61	5.45	37.58	5.62	37.56	5.78	38
39	38.62	5.43	38.60	5.60	38.57	5.76	38.55	5.93	39
40	39.61	5.57	39.59	5.74	39.56	5.91	39.53	6.08	40
41			40.58	5.88	40.55	6.06	40.52	6.24	41
42			41.57 42.56	6.03	41.54 42.53	6.21	41.51	6.39	42
44			43.54	6.31	43.52	6.50	43.49	6.69	44
45	44.56	6.26	44.53	6.46	44.51	6.65	44.48	6.85	45
46		6.40	45.52	6.60	45.49	6.80	45.46	7.00	46
47			46.51 47.50	6.74	46.48 47.47	6.95 7.09	46.45 47.44	7.15	47
49			48.49	7.03	48.46	7.24	48.43	7.45	49
50			49.48	7.17	49.45	7.39	49.42	7.61	50
ė	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ce.
Distance	89	Deg.	R14	Deg.	811	Deg.	811	Deg.	Distance.
2	02	<b></b>	017		""	~~6.	"	<sub>6</sub> .	P

		-	<u> </u>						
Distance	8 I	)eg.	81 1	Deg.	81	Deg.	84	Deg.	Distance
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	8
51	50.50 51.49	7.10 7.24	50.47 51.46	7.32 7.46	50.44 51.43	7.54 7.69	50.41 51.39	7.76 7.91	51 52
52 53	52.48	7.38	52.45	7.61	52.42	7.83	52.38	8.06	53
54	53.47	7.52	53.44	7.75	53.41	7.98	53.37	8.21	54
55 56	54.46 55.46	7.65 7.79	54.43 55.42	7.89 8.04	54.40 55.38	8.13 8.28	54.36 55.35	8.37 8.52	55 56
57	56.45	7.93	56.41	8.18	56.37	8.43	56.34	8.67	57
58	57.44	8.07	57.40 58.39	.8.32 8.47	57.36 58.35	8.57 8.72	57.32 58.31	8.82	58 59
59 60	58.43 59.42	8.21 8.35	59.38	8.61	59.34	8.87	59.30	9.13	60
61 62	60.41	8.49 8.63	60.37	8.75 8.90	60.33 61.32	9.02 9.16	60.29 61.28	9.28 9.43	61 62
63	61.40 62.39	8.77	61.36 62.35	9.04	62.31	9.31	62.27	9.58	63
64	63.38	8.91	63.34	9.18	63.30	9.46	63.26	9.74	64
65 66	64.37 65.36	9.05 9.19	64.33 65.32	9.33 9.47	64.29 65.28	9.61	64.24 65.23	9.89	65 66
67	66.35	9.32	66.31	9.61	66.26	9.90	66.22	10.19	67
68 69	67.34 68.33	9.46 9.60	67.30 68.29	9.76 9.90	67.25 68.24	10.05 10.20	67.21 68.20	10.34 10.50	68
70	69.32	9.74	69.28	10.04	69.23	10.25	69.19	10.65	70
71 72	70.31 71.30	9.88 10.02	70.27 71.25	10.19 10.33	70.22 71.21	10.49 10.64	70.17 71.16	10.80 10.95	71 72
73	72.29	10.02	72.24	10.33	72.20	10.79	72.15	11.10	73
74	73.28	10.30	73.23	10.62	73.19	10.94	73.14	11.26	74
75 76	74.27 75.26	10.44 10.58	74.22 75.21	10.76 10.91	74.18 75.17	11.09	74.13 75.12	11.41	75 76
77	76.25	10.72	76.20	11.05	76.15	11.38	76.10	11.71	77
78 79	77.24 78.23	10.86 10.99	77.19	11.19	77.14	11.53 11.68	77.09	11.87	78 79
80	79.22	11.13	78.18 79.17	11.34 11.48	78.13 79.12	11.82	78.08 79.07	12.02	80
81 82	80.21 81.20	11.27 11.41	80.16 81.15	11.62 11.77	80.11 81.10	11.97 12.12	80.06 81.05	12.32 12.47	81 82
83	82.19	11.55	82.14	11.91	82.09	12.27	82.03	12.63	83
84	83.18	11.69	83.13	12.05	83.08	12.42	83.02	12.78	84
85 86	84.17 85.16	11.83 11.97	84.12 85.11	12.20 12.34	84.07 85.06	12.56 12.71	84.01 85.00	12.93 13.08	85 86
87	86.15	12.11	86.10	12.48	86.04	12.86	85.99	13.23	87
88 89	87.14 88.13	12.25 12.39	87.09	12.63 12.77	87.03 88.02	13.01 13.16	86.98 87.96	13.39 13.54	88
90	88.13	12.39	88.08 89.07	12.77	89.01	13.16	88.95	13.54	90
91 92	90.11 91.10	12.66 12.80	90.06 91.05	13.06 13.20	90.00	13.45 13.60	89.94 90.93	13.84 14.00	91 92
93	92.09	12.80	92.04	13.20	91.98	13.75	91.92	14.00	93
94	93.09	13.08	93.03	13.49	92.97	13.89	92.91	14.30	94
95 96	94.08 95.07	13.22 13.36	94.02 95.01	13.63 13.78	93.96 94.95	14.04 14.19	93.89 94.88	14.45 14.60	95 96
97	96.06	13.50	96.00	13.92	95.93	4.34	95.87	14.76	97
98	97.05	13.64	96.99	14.06	96.92	14.49	96.86	14.91	98 99
99 100	98.04 99.03	13.78 13.92	97.98 98.97	14.21 14.35	97.91 98.90	14.63 14.78	97.85 98.84	15.06 15.21	100
lce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ice.
Distance	82	Deg.	813	Deg.	813	Deg.	811	Deg.	Distance.

		7				,			
Distance	,9 I	Deg.	91	Deg.	6 <del>1</del> I	Oeg.	91 1	Deg.	Distance.
e.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
1 2	0.99 1.98	0.16 0.31	0.99 1.97	0.16 0.32	0.99 1.97	0.17 0.33	0.99 1.97	0.17 0.34	1 2 3
3 4	2.96 3.95	0.47 0.63	2.96 3.95	0.48 0.64	2.96 3.95	0.50 0.66	2.96 3.94	0.51 0.68	3 4
. 5	4.94	0.78	4.93	0.80	4.93	0.83	4.93	0.85	5
6	5.93 6.91	0.94 1.10	5.92 6.91	0.96 1.13	5.92 6.90	0.99 1.16	5.91 6.90	1.02	6
8	7.90	1.10	7.90	1.13	7.89	1.32	7.88	1.19	8
9	8.89	1.41	8.88	1.45	8.88	1.49	8.87	1.52	9
10	9.88	1.56	9.87	1.61	9.86	1.65	9.86	1.69	10
11 12	10.86 11.85	1.72 1.88	10.86 11.84	1.77	10.85 11.84	1.82 1.98	10.84 11.83	1.86 2.03	11 12
13	12.84	2.03	12.83	2.09	12.82	2.15	12.81	2.20	13
14 15	13.83 14.82	2.19 2.35	13.82 14.80	2.25 2.41	13.81 14.79	2.31 2.48	13.80 14.78	2.37 2.54	14 15
16	15.80	2.50	15.79	2.57	15.78	2.64	15.77	2.71	16
17	16.79 17.78	2.66 2.82	16.78	2.73	16.77	2.81 2.97	16.75 17.74	2.88 3.05	17
18 19	18.77	2.02	17.77 18.75	2.89 3.05	17.75 18.74	3.14	18.73	3.22	18 19
20	19.75	3.13	19.74	3.21	19.73	3.30	19.71	3.39	20
21 22	20.74 21.73	3.29 3.44	20.73 21.71	3.38 3.54	20.71 21.70	3.47 3.63	20.70 21.68	3.56 3.73	21 22
23	22.72	3.60	22.70	3.70	22.68	3.80	22.67	3.90	23
24	23.70	3.75	23.69	3.86	23.67	3.96	23.65	4.06	24
25 26	24.69 25.68	3.91 4.07	24.67 25.66	4.02 4.18	24.66 25.64	4.13 4.29	24.64 25.62	4.23	25 26
27	26.67	4.22	26.65	4.34	26.63	4.46	26.61	4.57	27,
28 29	27.66 28.64	4.38 4.54	27.64 28.62	4.50 4.66	27.62 28.60	4.62 4.79	27.60 28.58	4.74	28 29
30	29.63	4.69	29.61	4.82	29.59	4.95	29.57	5.08	30
31 32	30.62 31.61	4.85 5.01	30.60 31.58	4.98 5.14	30.57 31.56	5.12 5.28	30.55 31.54	5.25 5.42	31 32
33	32.59	5.16	32.57	5.30	32.55	5.45	32.52	5.59	33
34	33.58	5.32	33.56	5.47	33.53	5.61	33.51	5.76	34
35 36	34.57 35.56	5.48 5.63	34.54	5.63 5.79	34.52 35.51	5.78 5.94	34.49 35.48	5.93 6.10	35 36
37	36.54	5.79	36.52	5.95	36.49	6.11	36.47	6.27	37
38 39	37.53 38.52	5.94 6.10	37.51 38.49	6.11 6.27	37.48 38.47	6.27 6.44	37.45	6.44	38 39
40	39.51	6.26	39.48	6.43	39.45	6.60	38.44 39.42	6.77	40
41 42	40.50	6.41 6.57	40.47	6.59	40.44	6.77	40.41	6.94	41 42
43	41.48 42.47	6.73	41.45	6.75 6.91	41.42	6.92 7.10	41.39 42.38	7.11 7.28	43
44	43.46	6.88	43.43	7.07	43.40	7.26	43.36	7.45	44
45 46	44.45 45.43	7.04 7.20	44.41 45.40	7.23 7.39	44.38	7.43	44.35	7.62	45 46
47	46.42	7.35	46.39	7.55	45.37 46.36	7.59 7.76	45.34 46.32	7.79 7.96	46
48	47.41	7.51	47.3	7.72	47.34	7.92	47.31	8.13	48
49 50	48.40 49.38	7.67 7.82	48.36 49.35	7.88 8.04	48.33 49.32	8.09 8.25	48.29 49.28	8.30 8.47	49 50
ē.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ė.
Distance	81 I	Deg.	80±	Deg.	801	Deg.	801	Deg.	Distance.
Δ.	1	•	1	\					Q

Distance.	91	Oeg.	91	Deg.	91 1	Deg.	91	Deg.	Distance
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
51 52	50.37 51.36	7.98 8.13	50.34 51.32	8.20 8.36	50.30 51.29	8.42 8.58	50.26 51.25	8.64 8.81	51 52
53	52.35	8.29	52.31	8.52	52.27	8.75	52.23	8.98	53
54	53.34	8.45	53.30	8.68	53.26	8.91	53.22	9.14	54
55	54.32	8.60	54.28	8.84	54.25	9.08	54.21	9.31	55
56 57	55.31 56.30	8.76 8.92	55.27 56.26	9.00 9.16	55.23 56.22	9.24 9.41	55.19 56.18	9.48	56 57
58	57.29	9.07	57.25	9.32	57.20	9.57	57.16	9.82	58
59	58.27	9.23	58.23	9.48	58.19	9.74	58.15	9.99	59
60	59.26	9.39	59.22	9.64	59.18	9.90	59.13	10.16	60
61 62	60.25 61.24	9.54 9.70	60.21 61.19	9.81 9.97	60.16 61.15	10.07 10.23	60.12 61.10	10.33 10.50	61 62
63	62.22	9.86	62.18	10.13	62.14	10.40	62.09	10.67	63
64	63.21	10.01	63.17	10.29	63.12	10.56	63.08	10.84	64
65	64.20	10.17	64.15	10.45	64.11	10.73	64.06	11.01	65
66	65.19	10.32	65.14	10.61	65.09	10.89	65.05	11.18	66
67 68	66.18 67.16	10.48 10.64	66.13 67.12	10.77 10.93	66.08 67.07	11.06 11.22	66.03	11.35	67 68
69	68.15	10.79	68.10	11.09	68.05	11.39	68.00	11.69	69
70	69.14	10.95	69.09	11.25	69.04	11.55	68.99	11.85	70
71	70.13	11.11	70.08	11.41	70.03	11.72	69.97	12.02	71
72 73	71.11 72.10	11.26 11.42	71.06	11.57 11.73	71.01 72.00	11.88 12.05	70.96 71.95	12.19 12.36	72
74	73.09	11.58	72.05 73.04	11.89	72.99	12.05	72.93	12.53	74
75	74.08	11.73	74.02	12.06	73.97	12.38	73.92	12.70	75
76	75.06	11.89	75.01	12.22	74.96	12.54	74.90	12.87	76
77	76.05	12.05	76.00	12.38	75.94	12.71	75.89	13.04	77
78 79	77.04 78.03	12.20 12.36	76.99	12.54 12.70	76.93	12.87	76.87	13.21	78
80	79.02	12.51	77.97 78.96	12.86	77.92 78.90	13.04 13. <b>2</b> 0	77.86 78.84	13.38 13.55	80
81	80.00	12.67	79.95	13.02	79.89	13.37	79.83	13.72	81
82	80.99	12.83	80.93	13.18	80.88	13.53	80.82	13.89	82
83 84	81.98 82.97	12.98 13.14	81.92	13.34 13.50	81.86	13.70 13.86	81.80 82.79	14.06	83 84
85	83.95	13.30	82.91 83.89	13.66	82.85 83.83	14.03	83.77	14.39	85
86	84.94	13.45	84.88	13.82	84.82	14.19	84.76	14.56	86
87	85.93	13.61	85.87	13.98	85.81	14.36	85.74	14.73	87
88	86.92	13.77	86.86	14.15	86.79	14.52	86.73	14.90	88
89 <b>90</b>	87.90 88.89	13.92 14.08	87.84 88.83	14.31 14.47	87.78 88.77	14.69 14.85	87.71 88.70	15.07 15.24	89 90
91	89.88	14.24	89.82	14.63	89.75	15.02	89.69	15.41	91
92	90.87	14.39	90.80	14.79	90.74	15.18	90.67	15.58	92
93	91.86	14.55	91.79	14.95	91.72	15.35	91.66	15.75	93
94 95	92.84 93.83	14.70 14.86	92.78 93.76	15.11 15. <b>27</b>	92.71 93.70	15.51 15.68	92.64 93.63	15.92 16.09	94 95
96	94.82	15.02	94.75	15.43	94.68	15.84	94.61	16.26	96
97	95.81	15.17	95.74	15.59	95.67	16.01	95.60	16.43	97
98	96.79	15.33	96.73	15.75	96.66	16.17	96.58	16.60	98
99 100	97.78 98.77	15.49 15.64	97.71 98.70	15.91 16.07	97.64 98.63	16.34 16.50	97.57 98.56	16.77 16.93	99 100
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	_
Distance.	81 I	eg.	804	Deg.	801	Deg.	801	Deg.	Distance.

Distance.	10 I	eg.	10 <u>1</u>	il	10 <u>1</u> 1	Deg.	10} 1	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
1	0.98	0.17	0.98 1.97	0.18 0.36	0.98 1.97	0.18 0.36	0.98 1.96	0.19 0.37	1 2
2 3	1.97 2.95	0.35 0.52	2.95	0.53	2.95	0.55	2.95	0.56	3
4	3.94	0.69	3.94	0.71	3.93	0.73	3.93	0.75	4
5 6	4.92 5.91	0.87 1.04	4.92 5.90	0.89 1.07	4.92 5.90	0.91	4.91 5.89	0.93 1.12	5 6
7	6.89	1.22	6.89	1.25	6.88	1.28	6.88	1.31	7
8	7.88	1.39	7.87	1.42	7.87	1.46	7.86	1.49	8
9 10	8.86 9.85	1.56 1.74	8.86 9.84	1.60 1.78	8.85 9.83	1.64 1.82	8.84 9.82	1.68 1.87	.9 10
11	10.83	1.91	10.82	1.96	10.82	2.00	10.81	2.05	11
12 13	11.82 12.80	2.08 2.26	11.81 12.79	2.14 2.31	11.80 12.78	2.19 2.37	11.79 12.77	2.24	12 13
14	13.79	2.43	13.78	2.49	13.77	2.55	13.75	2.61	14
15	14.77	2.60	14.76	2.67 2.85	14.75	2.73 2.92	14.74 15.72	2.80 2.98	15 16
16 17	15.76 16.74	2.78 2.95	15.74 16.73	3.03	15.73 16.72	3.10	16.70	3.17	17
18	17.73	3.13	17.71	3.20	17.70	3.28	17.68	3.36	18
19 20	18.71 19.70	3.30 3.47	18.70 19.68	3.38 3.56	18.68 19.67	3.46 3.64	18.67 19.65	3.54 3.73	19 <b>20</b>
21	20.68	3.65	20.66	3.74	20.65	3.83	20.63	3.92	21
22 23	21.67 22.65	3.82 3.99	21.65 22.63	3.91 4.09	21.63 22.61	4.01	21.61 22.60	4.10	22 23
24	23.64	4.17	23.62	4.27	23.60	4.37	23.58	4.48	24
25	24.62	4.34	24.60	4.45	24.58	4.56	24.56	4.66	25
26 27	25.61 26.59	4.51 4.69	25.59 26.57	4.63	25.56 26.55	4.74	25.54 26.53	4.85 5.04	26 27
28	27.57	4.86	27.55	4.98	27.53	5.10	27.51	5.22	28
29 30	28.56 29.54	5.04 5.21	28.54 29.52	5.16 5.34	28.51 29.50	5.28 5.47	28.49 29.47	5.41 5.60	29 30
31	30.53	5.38	30.51	5.52	30.48	5.65	30.46	5.78	31
32 33	31.51 32.50	5.56 5.73	31.49 32.47	5.69 5.87	31.46 32.45	5.83 6.01	31.44 32.42	5.97 6.16	32
33	33.48	5.90	33.46	6.05	33.43	6.20	33.40	6.34	34
35	34.47	6.08	34.44	6.23	34.41	6.38	34.39	6.53	35
36 37	35.45	6.25	35.43 36.41	6.41	35.40	6.56	35.37	6.71	36
38	37.42	6.60	37.39	6.76	36.38 37.36	6.92	36.35 37.33	7.09	38
39 40	38.41 39.39	6.77 6.95	38.38 39.36	6.94 7.12	38.35 39.33	7.11 7.29	38.32 39.30	7.27 7.46	39 40
41	40.38	7.12	40.35	7.30	40.31	7.47	40.28	7.65	41
42 43	41.36	7.29	41.33	7.47	41.30	7.65	41.26	7.83	42
43	42.35	7.64	42.31 43.30	7.65	42.28 43.26	7.84 8.02	42.25	8.02	43
45	44.32	7.81	44.28	8.01	44.25	8.20	44.21	8.39	45
46 47	45.30	7.99	45.27	8.19	45.23	8.38	45.19	8.58	46
48	46.29	8.16 8.34	46.25 47.23	8.36	46.21	8.57	46.18 47.16	8.77	47
49 50	48.26 49.24	8.51 8.68	48.22 49.20	8.72 8.90	48.18 49.16	8.93 9.11	48.14	9.14	49 50
<b>I</b>	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	-
Distance.	80	Deg.	<b> </b>	Deg.	∥	Deg.	1	Deg.	Distance.

Dia	10	Deg.	101	Deg.	10 <del>1</del>	Deg.	10}	Deg.	Dis
Distance			l		ļ			<del></del>	Distance.
į.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	8
51	50.23	8.86	50.19	9.08	50.15	9.29	50.10	9.51	51
52 53	51.21 52.19	9.03 9.20	51.17 52.15	9.25 9.43	51.13 52.11	9.48	51.09 52.07	9.70	52 53
54	53.18	9.38	53.14	9.61	53.10	9.84	53.05	10.07	54
<b>5</b> 5	54.16	9.55	54.12	9.79	54.08	10.02	54.03	10.26	55
56	55.15	9.72 9.90	55.11	9.96	55.06	10.21	55.02	10.45	56 57
57 58	56.13 57.12	10.07	56.09 57.07	10.14 10.32	56.05 57.03	10.39 10.57	56.00 56.98	10.63	58
59	58.10	10.25	58.06	10.50	58.01	10.75	57.96	11.00	59
60	59.09	10.42	59.04	10.68	59.00	10.93	58.95	11.19	60
61	60.07	10.59	60.03	10.85	59.98	11.12	59.93	11.38	61
62 63	61.06 62.04	10.77 10.94	61.01 61.99	11.03	60.96	11.30 11.48	60.91 61.89	11.56 11.75	62
64	63.03	11.11	62.98	11.39	62.93	11.66	62.88	11.94	64
65	64.01	11.29	63.96	11.57	63.91	11.85	63.86	12.12	65
66 67	65.00 65.98	11.46 11.63	64.95 65.93	11.74	64.89 65.88	12.03 12.21	64.84	12.31 12.50	66
68	66.97	11.63	66.91	12.10	66.86	12.39	66.81	12.68	68
69	67.95	11.98	67.90	12.28	67.84	12.57	67.79	12.87	69
70	68.94	12.16	68.88	12.46	68.83	12.76	68.77	13.06	70
71 72	69.92	12.33	69.87	12.63	69.81 70.79	12.94	69.75	13.24	71 72
73	70.91 71.89	12.50 12.68	70.85 71.83	12.81 12.99	71:78	13.12	70.74 71.72	13.43 13.62	73
74	72.88	12.85	72.82	13.17	72.76	13.49	72.70	13.80	74
75	73.86	13.02	73.80	13.35	73.74	13.67	73.68	13.99	75
76 77	74.85 75.83	13.20 13.37	74.79 75.77	13.52 13.70	74.73	13.85 14.03	74.67	14.18 14.36	76 77
78	76.82	13.54	76.76	13.88	75.71 76.69	14.03	75.65 76.63	14.55	78
79	77.80	13.72	77.74	14.06	77.68	14.40	77.61	14.74	79
80	78.78	13.89	78.72	14.24	78.66	14.58	78.60	14.92	80
81 82	79.77	14.07	79.71	14.41	79.64	14.76	79.58	15.11	81
83	80.75 81.74	14.24 14.41	80.69 81.68	14.59 14.77	80.63 81.61	14.94	80.56 81.54	15.29 15.48	82
84	82.72	14.59	82.66	14.95	82.59	15.31	82.53	15.67	84
85	83.71	14.76	83.64	15.13	83.58	15.49	83.51	15.85	85
86 87	84.69 85.68	14.93 15.11	84.63 85.61	15.30 15.48	84.56 85.54	15.67 15.85	84.49 85.47	16.04 16.23	86 87
88	86.66	15.28	86.60	15.66	86.53	16.04	86.46	16.41	88
89	87.65	15.45	87.58	15.84	87.51	16.22	87.44	16.60	89
90	88.63	15.63	88.56	16.01	88.49	16.40	88.42	16.79	90
91	89.62	15.80	89.55	16.19	89.48	16.58	89.40	16.97	91
92 93	90.60	15.98	90.53	16.37	90.46	16.77	90.39	17.16	92
93	91.59 92.57	16.15 16.32	91.52 92.50	16.55 16.73	91.44 92.43	16.95 17.13	91.37 92.35	17.35 17.53	93
95	93.56	16.50	93.48	16.90	93.41	17.31	93.33	17.72	95
96	94.54	16.67	94.47	17.08	94.39	17.49	94.32	17.91	96
97 98	95.53 96.51	16.84 17.02	95.45 96.44	17.26 17.44	95.38 96.36	17.68 17.86	95.30 96.28	18.09 18.28	97 98
99	97.50	17.19	97.42	17.62	97.34	18.04	97.26	18.47	99
100	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	100
Jce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Distance.
Distance	80 1	Dag	703	Dec	701	Dom	701	Dog	sta
Ä	OU .	Jeg.	794	neg.	79 <u>1</u> ]	Deg.	(87)	Deg.	Ä

Distance.	11	11 Deg.		Deg.	111	Deg.	114	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
1 2 3 4 5	0.98 1.96 2.94 3.93 4.91	0.19 0.38 0.57 0.76 0.95	0.98 1.96 2.94 3.92 4.90	0.20 0.39 0.59 0.78 0.98	0.98 1.96 2.94 3.92 4.90	0.20 0.40 0.60 0.80 1.00	0.98 1.96 2.94 3.92 4.90	0.20 0.41 0.61 0.82 1.02	1 2 3 4 5
6 7 8 9 10	5.89 6.87 7.85 8.83 9.82	1.14 1.34 1.53 1.72 1.91	5.88 6.87 7.85 8.83 9.81	1.17 1.37 1.56 1.76 1.95	5.88 6.86 7.84 8.82 9.80	1.20 1.40 1.59 1.79 1.99	5.87 6.85 7.83 8.81 9.79	1.22 1.43 1.63 1.83 2.04	6 7 8 9 10
11 12 13 14 15 16	10.80 11.78 12.76 13.74 14.72 15.71	2.10 2.29 2.48 2.67 2.86 3.05	10.79 11.77 12.75 13.73 14.71 15.69	2,15 2,34 2,54 2,73 2,93 3,12	10.78 11.76 12.74 13.72 14.70 15.68	2.19 2.39 2.59 2.79 2.99 3.19	10.77 11.75 12.73 13.71 14.69 15.66	2.24 2.44 2.65 2.85 3.06 3.26	11 12 13 14 15 16
17 18 19 20	16.69 17.67 18.65 19.63	3.24 3.43 3.63 3.82 4.01	16.67 17.65 18.63 19.62	3.32 3.51 3.71 3.90	16.66 17.64 18.62 19.60	3.39 3.59 3.79 3.99	16.64 17.62 18.60 19.58	3.46 3.66 3.87 4.07	17 18 19 20
22 23 24 25 26 27	21.60 22.58 23.56 24.54 25.52	4.20 4.39 4.58 4.77 4.96	21.58 22.56 23.54 24.52 25.50	4.29 4.49 4.68 4.88 5.07	21.56 22.54 23.52 24.50 25.48	4.39 4.59 4.78 4.98 5.18 5.38	21.54 22.52 23.50 24.48 25.46	4.48 4.68 4.89 5.09 5.30	22 23 24 25 26 27
28 29 30	26.50 27.49 28.47 29.45	5.15 5.34 5.53 5.72 5.92	26.48 27.46 28.44 29.42 30.40	5.27 5.46 5.66 5.85 6.05	26.46 27.44 28.42 29.40 30.38	5.58 5.78 5.98 6.18	26.43 27.41 28.39 29.37	5.50 5.70 5.91 6.11	28 29 30
32 33 34 35 36 37	31.41 32.39 33.38 34.36 35.34 36.32	6.11 6.30 6.49 6.68 6.87 7.06	31.39 32.37 33.35 34.33 35.31 36.29	6.24 6.44 6.63 6.83 7.02 7.22	31.36 32.34 33.32 34.30 35.28 36.26	6.38 6.58 6.78 6.98 7.18 7.38	31.33 32.31 33.29 34.27 35.25 36.22	6.52 6.72 6.92 7.13 7.33 7.53	32 33 34 35 36 37
38 39 40	37.30 38.28 39.27 40.25	7.25 7.44 7.63	37.27 38.25 39.23 40.21	7.41 7.61 7.80	37.24 38.22 39.20 40.18	7.58 7.78 7.97 8.17	37.20 38.18 39.16 40.14	7.74 7.94 8.15	38 39 40 41
42 43 44 45 46 47	41.23 42.21 43.19 44.17 45.15 46.14	8.01 8.20 8.40 8.59 8.78 8.97	41.19 42.17 43.15 44.14 45.12 46.10	8.19 8.39 8.58 8.78 8.97 9.17	41.16 42.14 43.12 44.10 45.08 46.06	8.37 8.57 8.77 8.97 9.17 9.37	41.12 42.10 43.08 44.06 45.04 46.02	8.55 8.76 8.96 9.16 9.37 9.57	42 43 44 45 46 47
48 49 50	47.12 48.10 49.08	9.16 9.35 9.54 Lat.	47.08 48.06 49.04 Dep.	9.36 9.56 9.75	47.04 48.02 49.00 Dep.	9.57 9.77 9.97 Lat.	46.99 47.97 48.95 Dep.	9.78 9.98 10.18	48 49 50
Distance.	79 I		783		781		784		Distance.

Distance.	11 F	eg.	114 1	Deg.	11 <u>3</u> I	Deg.	112 1	Deg.	Distance
ce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
51 52 53 54 55 56 57 58 59 60	50.06 51.04 52.03 53.01 53.99 54.97 55.95 56.93 57.92 58.90	9.78 9.92 10.11 10.30 10.49 10.69 10.88 11.07 11.26 11.45	50.02 51.00 51.98 52.96 53.94 54.92 55.90 56.89 57.87 58.85	9.95 10.14 10.34 10.53 10.73 10.93 11.12 11.32 11.51	49.98 50.96 51.94 52.92 53.90 54.88 55.86 56.84 57.82 58.80	10.17 10.37 10.57 10.77 10.97 11.16 11.36 11.56 11.76	49.93 50.91 51.89 52.87 53.85 54.83 55.81 56.78 57.76 58.74	10.39 10.59 10.79 11.00 11.20 11.40 11.61 11.81 12.01 12.22	51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70	59.88 60.86 61.84 62.82 63.81 64.79 65.77 66.75 67.73 68.71	11.64 11.83 12.02 12.21 12.40 12.59 12.78 12.98 13.17 13.36	59.83 60.81 61.79 62.77 63.75 64.73 65.71 66.69 67.67 68.66	11.90 12.10 12.29 12.49 12.68 12.88 13.07 13.27 13.46 13.66	59.78 60.76 61.74 62.72 63.70 64.68 65.66 66.63 67.61 68.59	12.16 12.36 12.56 12.76 12.96 13.16 13.36 13.56 13.76 13.96	59.72 60.70 61.68 62.66 63.64 64.62 65.60 66.58 67.55 68.53	12.42 12.63 12.83 13.03 13.24 13.44 13.64 13.85 14.05	61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80	69.70 70.68 71.66 72.64 73.62 74.60 75.59 76.57 77.55	13.55 13.74 13.93 14.12 14.31 14.50 14.69 14.88 15.07 15.26	69.64 70.62 71.60 72.58 73.56 74.54 75.52 76.50 77.48 78.46	13.85 14.05 14.24 14.44 14.63 14.83 15.02 15.22 15.41 15.61	69.57 70.55 71.53 72.51 73.49 74.47 75.45 76.43 77.41 78.39	14.16 14.35 14.55 14.75 14.95 15.15 15.35 15.55 15.75 15.95	69.51 70.49 71.47 72.45 73.43 74.41 75.39 76.37 77.34 78.32	14.46 14.66 14.87 15.07 15.27 15.48 15.68 15.88 16.09 16.29	71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89 90	79.51 80.49 81.48 82.46 83.44 84.42 85.40 86.38 87.36 88.35	15.46 15.65 15.84 16.03 16.22 16.41 16.60 16.79 16.98 17.17	79.44 80.42 81.41 82.39 83.37 84.35 85.33 86.31 87.29 88.27	15.80 16.00 16.19 16.39 16.58 16.78 16.97 17.17 17.36 17.56	79.37 80.35 81.33 82.31 83.29 84.27 85.25 86.23 87.21 88.19	16.15 16.35 16.55 16.75 16.95 17.15 17.35 17.54 17.74 17.94	79.30 80.28 81.26 82.24 83.22 84.20 85.18 86.16 87.14 88.11	16.49 16.70 16.90 17.11 17.31 17.51 17.72 17.92 18.12 18.33	81 82 83 84 85 86 87 88 89
91 92 93 94 95 96 97 98 99 100	89.33 90.31 91.29 92.27 93.25 94.24 95.22 96.20 97.18 98.16	17.36 17.55 17.75 17.94 18.13 18.32 18.51 18.70 18.89 19.08	89.25 90.23 91.21 92.19 93.17 94.16 95.14 96.12 97.10 98.08	17.75 17.95 18.14 18.34 18.53 18.73 18.92 19.12 19.31 19.51	89.17 90.15 91.13 92.11 93.09 94.07 95.05 96.03 97.01 97.99	18.14 18.34 18.54 18.74 18.94 19.14 19.34 19.54 19.74 19.94	89.09 90.07 91.05 92.03 93.01 93.99 94.97 95.95 96.93 97.90		91 92 93 94 95 96 97 98 99
Distance	Dep. 79 I	Lat. Deg.	Dep.	Lat. Deg.	Dep.	Lat. Deg.	Dep. 781	Lat. Deg.	Distance

		-	<del></del>		1		1		
Distance	12 I	Deg.	121	Deg.	121	Deg.	123	Deg.	Distance.
ce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
1 2	0.98 1.96	0.21 0.42	0.98 1.95	0.21 0.42	0.98 1.95	0.22 0.43	0.98 1.95	0.22 0.44	1
3	2.93	0.62	2.93	0.42	2.93	0.65	2.93	0.66	2 3
4	3.91	0.83	3.91	0.85	3.91	0.87	3.90	0.88	4
5 6	4.89 5.87	1.04	4.89 5.86	1.06 1.27	4.88 5.86	1.08 1.30	4.88 5.85	1.10 1.32	5 6
7	6.85	1.46	6.84	1.49	6.83	1.52	6.83	1.54	7
8	7.83	1.66	7.82	1.70	7.81	1.73	7.80	1.77	8
9 10	8.80 9.78	1.87 2.08	8.80 9.77	1.91 2.12	8.79 9.76	1.95 2.16	8.78 9.75	1.99 2.21	9 10
11 12	10.76 11.74	2.29 2.49	10.75 11.73	2.33 2.55	10.74 11.72	2.38 2.60	10.73	2.43 2.65	11 12
13	12.72	2.70	12.70	2.76	12.69	2.81	12.68	2.87	13
14	13.69	2.91	13.68	2.97	13.67	3.03	13.65	3.09	14
15 16	14.67 15.65	3.12 3.33	14.66 15.64	3.18 3.39	14.64 15.62	3.25 3.46	14.63 15.61	3.31 3.53	15 16
17	16.63	3.53	16.61	3.61	16.60	3.68	16.58	3.75	17
18	17.61	3.74	17.59	3.82	17.57	3.90	17.56	3.97	18
19 20	18.58 19.56	3.95 4.16	18.57 19.54	4.03 4.24	18.55 19.53	4.11 4.33	18.53 19.51	4.19 4.41	19 20
21 22	20.54 21.52	4.37 4.57	20.52 21.50	4.46 4.67	20.50 21.48	4.55 4.76	20.48 21.46	4.63 4.86	21 22
23	22.50	4.78	22.48	4.88	22.45	4.98	22.43	5.08	23
24	23.48	4.99	23.45	5.09	23.43	5.19	23.41	5.30	24
25 26	24.45 25.43	5.20 5.41	24.43 25.41	5.30 5.52	24.41 25.38	5.41 5.63	24.38 25.36	5.52 5.74	25 26
27	26.41	5.61	26.39	5.73	26.36	5.84	26.33	5.96	27
28 29	27.39 28.37	5.82 6.03	27.36 28.34	5.94 6.15	27.34 28.31	6.06	27.31 28.28	6.18	28 29
30	29.34	6.24	29,32	6.37	29.29	6.49	29.26	6.62	30
31	30.32	6.45	30.29	6.58	30.27	6.71	30.24	6.84	31
32 33	31.30 32.28	6.65 6.86	31.27 32.25	6.79 7.00	31.24	6.93 7.14	31.21 32.19	7.06 7.28	32 33
34	33.26	7.07	33.23	7.21	33.19	7.36	33.16	7.50	.34
35	34.24	7.28	34.20	7.43	34.17	7.58	34.14	7.72	35
36 37	35.21 36.19	7.48 7.69	35.18 36.16	7.64 7.85	35.15 36.12	7.79 8.01	35.11 36.09	7.95 8.17	36 37
38	37.17	7.90	37.13	8.06	37.10	8.22	37.06	8.39	38
39	38.15	8.11	38.11	8.27	38.08	8.44	38.04	8.61	39
40	39.13	8.32	39.09	8.49	39.05	8.66	39.01	8.83	40
41 42	40.10	8.52 8.73	40.07	8.70 8.91	40.03 41.00	8.87 9.09	39.99 40.96	9.05 9.27	41 42
43	42.06	8.94	42.02	9.12	41.98	9.31	41.94	9.49	43
44	43.04	9.15	43.00	9.34	42.96	9.52	42.92	9.71	44
45 46	44.02	9.36 9.56	43.98 44.95	9.55 9.76	43.93 44.91	9.74 9.96	43.89 44.87	9.93 10.15	45 46
47	45.97	9.77	45.93	9.97	45.89	10.17	45.84	10.13	47
48	46.95	9.98	46.91	10.18	46.86	10.39	46.82	10.59	48
49 50	47.93 48.91	10.19 10.40	47.88 48.86	10.40 10.61	47.84 48.81	10.61 10.82	47.79 48.77	10.81 11.03	49 5 <b>0</b>
ace.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ce.
Distance.	78 ]	Deg.	773	Deg.	771	Deg.	771	Deg.	Distance.

					_				
Distance	12 l	Deg.	121	Deg.	121	Deg.	12% Deg.		Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
51	49.89	10.60	49.84	10.82	49.79 50.77	11.04 11.25	49.74 50.72	11.26 11.48	51 52
52 53	50.86 51.84	10.81 11.02	50.82 51.79	11.03 11.25	51.74	11.25	51.69	11.70	53
54	52.82	11.23	52.77	11.46	52.72	11.69	52.67	11.92	54
55	53.80	11.44	53.75	11.67	53.70	11.90	53.64	12.14	55
56	54.78	11.64	54.72	11.88	54.67	12.12	54.62	12.36	56
57	55.75	11.85	55.70	12.09	. 55 • 65	12.34	55.59	12.58	57
58	56.73	12.06	56.68	12.31	56.63	12.55	56.57	12.80	58
60	57.71 58.69	12.27 12.47	57.66 58.63	12.52 12.73	57.60 58.58	12.77 12.99	57.55 58.52	13.02 13.24	59 60
61	59.67	12.68	59.61	12.94	59.55	13.20	59.50	13.46	61
62 63	60.65 61.62	12.89	60.59	13.16 13.37	60.53	13.42	60.47	13.68 13.90	62 63
64	62.60	13.10 13.31	61.57 62.54	13.58	61.51 62.48	13.85	62.42	14.12	64
65	63.58	13.51	63.52	13.79	63.46	14.07	63.40	14.35	65
66	64.56	13.72	64.50	14.00	64.44	14.29	64.37	14.57	66
67	65.54	13.93	65.47	14.22	65.41	14.50	65.35	14.79	67
68	66.51	14.14	66.45	14.43	66.39	14.72	66.32	15.01	68
69	67.49	14.35	67.43	14.64	67.36	14.93	67.30	15.23	69 70
70,	68.47	14.55	68.41	14.85	68.34	15.15	68.27	15.45	
71 72	69.45	14.76	69.38 70.36	15.06	69.32	15.37	69.25	15.67	71 72
73	70.43 71.40	14.97 15.18	71.34	15.28 15.49	70.29	15.58 15.80	70.22 71.20	15.89 16.11	73
74	72.38	15.39	72.32	15.70	72.25	16.02	72.18	16.33	74
75	73.36	15.59	73.29	15.91	73.22	16.23	73.15	16.55	75
76	74.34	15.80	74.27	16.13	74.20	16.45	74.13	16.77	76
77	75.32	16.01	75.25	16.34	75.17	16.67	75.10	16.99	77
78	76.30	16.22	76.22	16.55	76.15	16.88	76.08	17.21	78
79 80	77.27 78.25	16.43 16.63	77.20 78.18	16.76 16.97	77.13 78.10	17.10 17.32	77.05 78.03	17.44 17.66	79 80
81	79.23	16.84	79.16	17.19	79.08	17.53	79.00	17.88	81
82	80.21	17.05	80.13	17.40	80.06	17.75	79.98	18.10	82
83	81.19	17.26	81.11	17.61	81.03	17.96	80.95	18.32	83
84	82.16	17.46	82.09	17.82	82.01	18.18	81.93	18.54	84
85	83.14	17.67	83.06	18.04	82.99	18.40	82.90	18.76	85
86	84.12	17.88	84.04	18.25	83.96	18.61	83.88	18.98	86
87 88	85.10 86.08	18.09 18.30	85.02 86.00	18.46 18.67	84.94	18.83 19.05	84.85 85.83	19.20 19.42	87
89	87.06	18.50	86.97	18.88	86.89	19.05	86.81	19.42	89
90	88.03	18.71	87.95	19.10	87,87	19.48	87.78	19.86	90
91	.89.01	18.92	88.93	19.31	88.84	19.70	88.76	20.08	91
92	89.99	19.13	89.91	19.52	89.82	19.91	89.73	20.30	92
93	90.97	19.34	.90.88	19.73	90.80	20.13	90.71	20.52	93
94	91.95	19.54	91.86	19.94	91.77	20.35	91.68	20.75	94
95	92.92	19.75	92.84	20.16	92.75	20.56	92.66	20.97	95
96 97	93.90	19.96	93.81	20.37	93.72	20.78	93.63	21.19	96
98	94.88	20.17 20.38	94.79 95.77	20.58	94.70	20.99	94.61 95,58	21.41	97 98
99	96.84	20.58	96.75	21.01	96.65	21.43	96.56	21.85	99
100	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	78	Deg.	773	Deg.	771	Deg.	77½ Deg.		Distance

Dist	13	13 Deg.		Deg.	131	Deg.	13½ Deg.		Dist
Distance.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Distance.
1 2 3	0.97 1.95 2.92	0.23 0.45 0.67	0.97 1.95 2.92	0.23 0.46 0.69	0.97 1.95 2.92	0.23 0.47 0.70	0.97 1.94 2.91	0.24 0.48 0.71	1 2 3
4 5	3.90 4.87	0.90 1.12	3.89 4.87	0:92 1.15	3.89 4.86	0.93 1.17	3.89	0.95 1.19	4 5
6 7	5.85 6.82	1.35 1.57	5.84 6.81	1.38 1.60	5.83 6.81	1.40 1.63	5.83 6.80	1.43 1.66	6 7
8 9 10	7.80 8.77 9.74	1.80 2.02 2.25	7.79 8.76 9.73	1.83 2.06 2.29	7.78 8.75 9.72	1.87 2.10 2.33	7.77 8.74 9.71	1.90 2.14 2.38	8 9 10
11 12	10.72 11.69	2.47 2.70	10.71 11.68	2.52 2.75	10.70 11.67	2.57 2.80	10.68 11.66	2.61 2.85	11 12
13 14	12.67 13.64	2.92 3.15	12.65 13.63	2.98 3.21	12.64 13.61	3.03 3.27	12.63 13.60	3.09 3.33	13 14
15 16	14.62 15.59	3.37 3.60	14.60 15.57	3.44 3.67	14.59 15.56	3.50 3.74	14.57 15.54	3.57 3.80	15 16
17	16.57 17.54	3.82	16.55	3.90	16.53	3.97	16.51 17.48	4.04	17
18 19 <b>20</b> :	18.51 19.49	4.05 4.27 4.50	17.52 18.49 19.47	4.13 4.35 4.58	17.50 18.48 19.45	4.20 4.44 4.67	18.46 19.43	4.28 4.52 4.75	18 19 <b>20</b>
21 22	20.46 21.44	4.72 4.95	20.44 21.41	4.81 5.04	20.42 21.39	4.90 5.14	20.40 21.37	4.99 5.23	21 22
23	22.41	, 5.17	22.39	5.27	22.36	5.37	22.34	5.47	23
24 25	23.38 24.36	5.40 5.62	23.36 24.33	5.50 5.73	23.34 24.31	5.60 5.84	23.31 24.28	5.70 5.94	24 25
26 27	25.33	5.85 6.07	25.31	5.96	25.28	6.07	25.25	6.18	26 27
28	26.31 27.28	6.30	26.28 27.25	6.19 6.42	26.25 27.23	6.30 6.54	26.23 27.20	6.42	28
29 30	28.26 29.23	6.52 6.75	28.23 29.20	6.65 6.88	28.20 29.17	6.77 7.00	28.17 29.14	6.89 7.13	29 30
31 32	30.21 31.18	6.97 7.20	30.17 31.15	7.11 7.33	30.14 31.12	7.24 7.47	30.11 31.08	7.37 7.61	31 32
33	32.15	7.42	32.12	7.56	32.09	7.70	32.05	7.84	33
34 35	33.13 34.10	7.65 7.87	33.09 34.07	7.79 8.02	33.06 34.03	7.94 8.17	33.03 34.00	8.08 8.32	34 35
36	35.08	8.10	35.04	8.25	35.01	8.40	34.97	8.56	36
37 38	36.05 37.03	8.32 8.55	36.02 36.99	8.48 8.71	35.98 36.95	8.64 8.87	35.94 36.91	8.79 9.03	37 38
39 40	38.00 38.97	8.77 9.00	37.96 38.94	8.94 9.17	37.92 38.89	9.10 9.34	37.88 38.85	9.27 9.51	39 40
41	39.95	9.22	39.91	9.40	39.87	9.57	39.83	9.75	41
42 43	40.92 41.90	9.45 9.67	40.88 41.86	9.63 9.86	40.84	9.80 10.04	40.80	9.98 10.22	42
43	42.87	9.90	42.83	10.08	42.78	10.04	42.74	10.22	43
45	43.85	10.12	43.80	10.31	43.76	10.51	43.71	10.70	45
46 47	44.82 45.80	10.35 10.57	44.78 45.75	10.54 10.77	44.73 45.70	10.74 10.97	44.68	10.93 11.17	46 47
48	46.77	10.80	46.72	11.00	46.67	11.21	46.62	11.41	48
49 50	47.74 48.72	11.02 11.25	47.70 48.67	11.23 11.46	47.65 48.62	11.44 11.67	47.60 48.57	11.65 11.88	49 50
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance	77 1	Deg.	761	Deg.	76 <u>1</u>	Deg.	761 Deg.		Distance.

Distance.	13 I	eg.	13 <del>1</del> I	Deg.	. 13 <u>1</u> I	Deg.	13 <b>‡</b> I	eg.	Distance
, B	Lat.	Dep.	Lat.	Đep.	Lat.	Dep.	Lat.	Dep.	ace.
51 52 53 54 55 56 57 58 59 60	49.69 50.67 51.64 52.62 53.59 54.56 55.54 56.51 57.49 58.46	11.47 11.70 11.92 12.15 12.37 12.60 12.82 13.05 13.27 13.50	49.64 50.62 51.59 52.56 53.54 54.51 55.48 56.46 57.43 58.40	11.69 11.92 12.15 12.38 12.61 12.84 13.06 13.29 13.52 13.75	49.59 50.56 51.54 52.51 63.48 54.45 55.43 56.40 57.37 58.34	11.91 12.14 12.37 12.61 12.84 13.07 13.31 13.54 13.77 14.01	49.54 50.51 51.48 52.45 53.42 54.40 55.37 56.34 57.31 58.28	12.12 12.36 12.60 12.84 13.07 13.31 13.55 13.79 14.02 14.26	51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70	59.44 60.41 61.39 62.36 63.33 64.31 65.28 66.26 67.23 68.21	13.72 13.95 14.17 14.40 14.62 14.85 15.07 15.30 15.52 15.75	59.38 60.35 61.32 62.30 63.27 64.24 65.22 66.19 67.16 68.14	13.98 14.21 14.44 14.67 14.90 15.13 15.36 15.59 15.81 16.04	59.31 60.29 61.26 62.23 63.20 64.18 65.15 66.12 67.09 68.07	14.24 14.47 14.71 14.94 15.17 15.41 15.64 15.87 16.11 16.34	59.25 60.22 61.19 62.17 63.14 64.11 65.08 66.05 67.02 67.99	14.50 14.74 14.97 15.21 15.45 15.69 15.93 16.16 16.40 16.64	61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80	69.18-70.15 71.13 72.10 73.08 74.05 75.03 76:00 76.98 77.95	15.97 16.20 16.42 16.65 16.87 17.10 17.32 17.55 17.77	69.11 70.08 71.06 72.03 73.00 73.98 74.95 75.92 76.90 77.87	16.27 16.50 16.73 16.96 17.19 17.42 17.65 17.88 18.11 18.34	69.04 70.01 70.98 71.96 72.93 73.90 74.87 75.84 76.82 77.79	16.57 16.81 17.04 17.28 17.50 17.74 17.98 18.21 18.44 18.68	68.97 69.94 70.91 71.88 72.85 73.82 74.79 75.76 76.74 77.71	16.88 17.11 17.35 17.59 17.83 18.06 18.30 18.54 18.78 19.01	71 72 73 74 75 76 77 78 79
81 82 83 84 85 86 87 88 89 90	78.92 79.90 80.87 81.85 82.82 83.80 84.77 85.74 86.72 87.69	18.22 18.45 18.67 18.90 19.12 19.35 19.57 19.80 20.02 20.25	78.84 79.82 80.79 81.76 82.74 83.71 84.68 85.66 86.63 87.60	18.57 18.79 19.02 19.25 19.48 19.71 19.94 20.17 20.40 20.63	78.76 79.73 80.71 81.68 82.65 83.62 84.60 85.57 86.54 87.51	18.91 19.14 19.38 19.61 19.84 20.08 20.31 20.54 20.78 21.01	78.68 79.65 80.62 81.59 82.56 83.54 84.51 85.48 86.45 87.42	19.25 19.49 19.73 19.97 20.20 20.44 20.68 20.92 21.15 21.39	81 82 83 84 85 86 87 88 89
91 92 93 94 95 96 97 98 99	88.67 89.64 90.62 91.59 92.57 93.54 94.51 95.49 96.46 97.44	20.47 20.70 20.92 21.15 21.37 21.60 21.82 22.05 22.27 22.50	88.58 89.55 90.52 91.50 92.47 93.44 94.42 95.39 96.36 97.34	20.86 21.09 21.32 21.54 21.77 22.00 22.23 22.46 22.69 22.92	88.49 89.46 90.43 91.40 92.38 93.35 94.32 95.29 96.26 97.24	21.24 21.48 21.71 21.94 22.18 22.41 22.64 22.88 23.11 23.34	88.39 89.36 90.33 91.31 92.28 93.25 94.22 95.19 96.16 97.13	21.63 21.87 22.10 22.34 22.58 22.82 23.06 23.29 23.53 23.77	91 92 93 94 95 96 97 98 99 100
Distance.	Dep.	Lat. Deg.	Dep.	Deg.	76½	Deg.	761	Lat. Deg.	Distance.

Digitized by GOOGIC

Distance.	14	Deg.	141	Deg.	141	Deg.	143	Deg.	Distance
ç.	Lat.	Dep.	Lat.	Dep.	. Lat.	Dep.	Lat.	Dep.	ice.
1 2 3 4 5 6	0.97 1.94 2.91 3.88 4.85	0.24 0.48 0.73 0.97 1.21 1.45	0.97 1.94 2.91 3.88 4.85 5.82	0.25 0.49 0.74 0.98 1.23 1.48	0.97 1.94 2.90 3.87 4.84 5.81	0.25 0.50 0.75 1.00 1.25 1.50	0.97 1.93 2.90 3.87 4.84 5.80	0.25 0.51 0.76 1.02 1.27 1.53	1 2 3 4 5 6
7	6.79	1.69	6.78	1.72	6.78	1.75	6.77	1.78	7
8	7.76	1.94	7.75	1.97	7.75	2.00	7.74	2.04	8
9	8.73	2.18	8.72	2.22	8.71	2.25	8.70	2.29	9
10	9.70	2.42	9.69	. 2.46	9.68	2.50	9.67	2.55	10
11	10.67	2.66	10.66	2.71	10.65	2.75	10.64	2.80	11
12	11.64	2.90	11.63	2.95	11.62	3.00	11.60	3.06	12
13	12.61	3.15	12.60	3.20	12.59	3.25	12.57	3.31	13
14	13.58	3.39	13.57	3.45	13.55	3.51	13.54	3.56	14
15	14.55	3.63	14.54	3.69	14.52	3.76	14.51	3.82	15
16	15.52	3.87	15.51	3.94	15.49	4.01	15.47	4.07	16
17	16.50	4.11	16.48	4.18	16.46	4.26	16.44	4.33	17
18	17.47	4.35	17.45	4.43	17.43	4.51	17.41	4.58	18
19	18.44	4.60	18.42	4.68	18.39	4.76	18.37	4.84	19
20	19.41	4.84	19.38	4.92	19.36	5.01	19.34	5.09	20
21	20.38	5.08	20.35	5.17	20.33	5.26	20.31	5.35	21
22	21.35	5.32	21.32	5.42	21.30	5.51	21.28	5.60	22
23	22.32	5.56	22.29	5.66	22.27	5.76	22.24	5.86	23
24	23.29	5.81	23.26	5.91	23.24	6.01	23.21	6.11	24
25	24.26	6.05	24.23	6.15	24.20	6.26	24.18	6.37	25
26	25.23	6.29	25.20	6.40	25.17	6.51	25.14	6.62	26
27	26.20	6.53	26.17	6.65	26.14	6.76	26.11	6.87	27
28	27.17	6.77	27.14	6.89	27.11	7.01	27.08	7.13	28
29	28.14	7.02	28.11	7.14	28.08	7.26	28.04	7.38	29
30	29.11	7.26	29.08	7.38	29.04	7.51	29.01	7.64	30
31	30.08	7.50	30.05	7.63	30.01	7.76	29.98	7.89	31
32	31.05	7.74	31.02	7.88	30.98	8.01	30.95	8.15	32
33	32.02	7.98	31.98	8.12	31.95	8.26	31.91	8.40	33
34	32.99	8.23	32.95	8.37	32.92	8.51	32.88	8.66	34
35	33.96	8.47	33.92	8.62	33.89	8.76	33.85	8.91	35
36	34.93	8.71	34.89	8.86	34.85	9.01	34.81	9.17	36
37	35.90	8.95	35.86	9.11	35.82	9.26	35.78	9.42	37
38	36.87	9.19	36.83	9.35	36.79	9.51	36.75	9.67	38
39	37.84	9.44	37.80	9.60	37.76	9.76	37.71	9.93	39
40	38.81	9.68	38.77	9.85	38.73	10.02	38.68	10.18	40
41	39.78	9.92	39.74	10.09	39.69	10.27	39.65	10.44	41
42	40.75	10.16	40.71	10.34	40.66	10.52	40.62	10.69	42
43	41.72	10.40	41.68	10.58	41.63	10.77	41.58	10.95	43
44	42.69	10.64	42.65	10.83	42.60	11.02	42.55	11.20	44
45	43.66	10.89	43.62	11.08	43.57	11.27	43.52	11.46	45
46	44.63	11.13	44.58	11.32	44.53	11.52	44.48	11.71	46
47	45.60	11.37	45.55	11.57	45.50	11.77	45.45	11.97	47
48	46.57	11.61	46.52	11.82	46.47	12.02	46.42	12.22	48
49	47.54	11.85	47.49	12.06	47.44	12.27	47.39	12.48	49
50	48.51	12.10	48.46	12.31	48.41	12.52	48.35	12.73	50
Distance.	76 I	Lat. Deg.	Dep.	Lat. Deg.	75½	Lat. Deg.	Dep. Lat. 751 Deg.		Distance.

Distance	14	Deg.	141	Deg.	141	Deg.	141 Deg.		Distance.
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
51 52 53 54 55 56 57 58 59 60	49.49 50.46 51.43 52.40 53.37 54.34 55.31 56.28 57.25 58.22	12.34 12.58 12.82 13.06 13.31 13.55 13.79 14.03 14.27 14.52	49.43 50.40 51.37 52.34 53.31 54.28 55.25 56.22 57.18 58.15	12.55 12.80 13.05 13.29 13.54 13.78 14.03 14.28 14.52 14.77	49.38 50.34 51.31 52.28 53.25 54.22 55.18 56.15 57.12 58.09	12.77 13.02 13.27 13.52 13.77 14.02 14.27 14.52 14.77 15.02	49.32 50.29 51.25 52.22 53.19 54.15 55.12 56.09 57.06 58.02	12.98 13.24 13.49 13.75 14.00 14.26 14.51 14.77 15.02 15.28	51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70	59.19 60.16 61.13 62.10 63.07 64.04 65.01 65.98 66.95 67.92	14.76 15.00 15.24 15.48 15.72 15.97 16.21 16.45 16.69	59.12 60.09 61.06 62.03 63.00 63.97 64.94 65.91 66.88 67.85	15.02 15.26 15.51 15.75 16.00 16.25 16.49 16.74 16.98 17.23	59.06 60.03 60.99 61.96 62.93 63.90 64.87 65.83 66.80 67.77	15.27 15.52 15.77 16.02 16.27 16.53 16.78 17.03 17.28 17.53	58.99 59.96 60.92 61.89 62.86 63.83 64.79 65.76 66.73 67.69	15.53 15.79 16.04 16.29 16.55 16.80 17.06 17.31 17.57 17.82	61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80	68.89 69.86 70.83 71.80 72.77 73.74 74.71 75.68 76.65 77.62	17.18 17.42 17.66 17.90 18.14 18.39 18.63 18.87 19.11	68.82 69.78 70.75 71.72 72.69 73.66 74.63 75.60 76.57 77.54	17.48 17.72 17.97 18.22 18.46 18.71 18.95 19.20 19.45	68.74 69.71 70.67 71.64 72.61 73.58 74.55 75.52 76.48 77.45	17.78 18.03 18.28 18.53 18.78 19.03 19.28 19.53 19.78 20.03	68.66 69.63 70.59 71.56 72.53 73.50 74.46 75.43 76.40 77.36	18.08 18.33 18.59 18.84 19.10 19.35 19.60 19.86 20.11 20.37	71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89 90	78.59 79.56 80.53 81.50 82.48 83.45 84.42 85.39 86.36 87.33	19.60 19.84 20.08 20.32 20.56 20.81 21.05 21.29 21.53 21.77	78.51 79.48 80.45 81.42 82.38 83.35 84.32 85.29 86.26 87.23	19.94 20.18 20.43 20.68 20.92 21.17 21.42 21.66 21.91 22.15	78.42 79.39 80.36 81.32 82.29 83.26 84.23 85.20 86.17 87.13	20.28 20.53 20.78 21.03 21.28 21.53 21.78 22.03 22.28 22.53	78.33 79.30 80.26 81.23 82.20 83.17 84.13 85.10 86.07 87.03	20.62 20.88 21.13 21.39 21.64 21.90 22.15 22.41 22.66 22.91	81 82 83 84 85 86 87 88 89 90
91 92 93 94 95 96 97 98 99 100	88.30 89.27 90.24 91.21 92.18 93.15 94.12 95.09 96.06 97.03	22.01 22.26 22.50 22.74 22.98 23.22 23.47 23.71 23.95 24.19	88.20 89.17 90.14 91.11 92.08 93.05 94.02 94.98 95.95 96.92 Dep.	22.40 22.65 22.89 .23.14 23.38 23.63 23.88 24.12 24.37 24.62	88.10 89.07 90.04 91.01 91.97 92.94 93.91 94.88 95.85 96.81	22.78 23.04 23.29 23.54 23.79 24.04 24.29 24.54 24.79 25.04  Lat.	88.00 88.97 89.94 90.90 91.87 92.84 93.80 94.77 95.74 96.70	23.17 23.42 23.68 23.93 24.19 24.44 24.70 24.95 25.21 25.46 Lat.	91 92 93 94 95 96 97 98 99 100
Distance	76 l	Deg.	75 <del>1</del>	Lat. Deg.	Dep.	Deg.	751	Deg.	Distance.

7									
Distance.	15	Deg.	151	Deg.	151	Deg.	161	Deg.	Distance.
. 8	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
1 2 3 4 5 6 7 8 9	0.97 1.93 2.90 3.86 4.83 5.80 6.76 7.73 8.69 9.66	0.26 0.52 0.78 1.04 1.29 1.55 1.81 2.07 2.33 2.59	0.96 1.93 2.89 3.86 4.82 5.79 6.75 7.72 8.68 9.65	0.26 0.53 0.79 1.05 1.32 1.58 1.84 2.10 2.37 2.63	0.96 1.93 2.89 3.85 4.82 5.78 6.75 7.71 8.67 9.64	0.27 0.53 0.80 1.07 1.34 1.60 1.87 2.14 2.41 2.67	0.96 1.92 2.89 3.85 4.81 5.77 6.74 7.70 8.66 9.62	0.27 0.54 0.81 1.09 1.36 1.63 1.90 2.17 2.44 2.71	1 2 3 4 5 6 7 8 9
11 12 13 14 15 16 17 18 19 20	10.63 11.59 12.56 13.52 14.49 15.45 16.42 17.39 18.35 19.32	2.85 3.11 3.36 3.62 3.88 4.14 4.40 4.66 4.92 5.18	10.61 11.58 12.54 13.51 14.47 15.44 16.40 17.37 18.33 19.30	2.89 3.16 3.42 3.68 3.95 4.21 4.47 4.73 5.00 5.26	10.60 11.56 12.53 13.49 14.45 15.42 16.38 17.35 18.31 19.27	2.94 3.21 3.47 3.74 4.01 4.28 4.54 4.81 5.08 5.34	10.59 11.55 12.51 13.47 14.44 15.40 16.36 17.32 18.29 19.25	2.99 3,26 3.53 3.80 4.07 4.34 4.61 4.89 5.16 5.43	11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30	20.28 21.25 22.22 23.18 24.15 25.11 26.08 27.05 28.01 28.98	5.44 5.69 5.95 6.21 6.47 6.73 6.99 7.25 7.51 7.76	20.26 21.23 22.19 23.15 24.12 25.08 26.05 27.01 27.98 28.94	5.52 5.79 6.05 6.31 6.58 6.84 7.10 7.36 7.63 7.89	20.24 21.20 22.16 23.13 24.09 25.05 26.02 26.98 27.95 28.91	5.61 5.88 6.15 6.41 6.68 6.95 7.22 7.48 7.75 8.02	20.21 21.17 22.14 23.10 24.06 25.02 25.99 26.95 27.91 28.87	5.70 5.97 6.24 6.51 6.79 7.06 7.33 7.60 7.87 8.14	21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40	29.94 30.91 31.88 32.84 33.81 34.77 35.74 36.71 37.67 38.64	8.02 8.28 8.54 8.80 9.06 9.32 9.58 9.84 10.09 10.35	29.91 30.87 31.84 32.80 33.77 34.73 35.70 36.66 37.63 38.59	8.15 8.42 8.68 8.94 9.21 9.47 9.73 10.00 10.26 10.52	29.87 30.84 31.80 32.76 33.73 34.69 35.65 36.62 37.58 38.55	8.28 8.55 8.82 9.09 9.35 9.62 9.89 10.16 10.42 10.69	29.84 30.80 31.76 32.72 33.69 34.65 35.61 36.57 37.54 38.50	8.41 8.69 8.96 9.23 9.50 9.77 10.04 10.31 10.59 10.86	31 32 33- 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50	39.60 40.57 41.53 42.50 43.47 44.43 45.40 46.36 47.33 48.30 Dep.	10.61 10.87 11.13 11.39 11.65 11.91 12.16 12.42 12.68 12.94 Lat.	39.56 40.52 41.49 42.45 43.42 44.38 45.35 46.31 47.27 48.24 Dep.	10.78 11.05 11.31 11.57 11.84 12.10 12.36 12.63 12.89 13.15	39.51 40.47 41.44 42.40 43.36 44.33 45.29 46.25 47.22 48.18 Dep.	10.96 11.22 11.49 11.76 12.03 12.29 12.56 12.83 13.09 13.36	39.46 40.42 41.39 42.35 43.31 44.27 45.24 46.20 47.16 48.12 Dep.	11.13 11.40 11.67 11.94 12.21 12.49 12.76 13.03 13.30 13.57	41 42 43 44 45 46 47 48 49 50
Distance.	75	Deg.	741	Deg.	741	Deg.	741	Deg.	Distance.

Distance	15 I	)eg.	15 <del>1</del> 1	Deg.	15 <del>]</del> I	Deg.	15‡ 1	Deg.	Distance
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Se.
51	49.26	13.20	49.20	13.41	49.15	13.63	49.09	13.84	51 52
<b>52</b> 53	50.23 51.19	13.46 13.72	50.17 51.13	13.68 13.94	50.11 51.07	13.90 14.16	50.05 51.01	14.11 14.39	53
54	52.16	13.98	52.10	14.20	52.04	14.43	51.97	14.66	54
55	53.13	14.24	53.06	14.47	53.00	14.70	52.94	14.93	55
56 57	54.09 55.06	14.49 14.75	54.03 54.99	14.73 14.99	53.96 54.93	14.97 15.23	53.90 54.86	15.20 15.47	56 57
58	56.02	15.01	55.96	15.26	55.89	15.50	55.82	15.74	58
59	56.99	15.27	56.92	15.52	56.85	15.77	56.78	16.01	59
60	57.96	15.53	57.89	15.78	57.82	16.03	57.75	16.29	60
61	58.92	15.79	58.85	16.04	58.78	16.30	58.71	16.56	61
62	59.89	16.05	59.82	16.31	59.75	16.57	59.67	16.83	62
63 64	60.85 61.82	16.31 16.56	60.78	16.57 16.83	60.71	16.84 17.10	60.63 61.60	17.10 17.37	64
65	62.79	16.82	62.71	17.10	62.64	17.37	62.56	17.64	65
66	63.75	17.08	63. <b>6</b> 8	17.36	63.60	17.64	63.52	17.92	66
67 68	64.72 65.68	17.34 17.60	64.64	17.62 17.89	64.56 65.53	17.90 18.17	64.48 65.45	18.19 18.46	67 68
69	66.65	17.86	66.57	18.15	66.49	18.44	66.41	18.73	69
70	67.61	18.12	67.54	18.41	67.45	18.71	67.37	19.00	70
71	68.58	18.38	68.50	18.68	68.42	18.97	68.33	19.27	71
72	69.55	18.63	69.46	18.94	69.38	19.24	69.30	19.54	72
73 74	70.51 71.48	18.89 19.15	70.43 71.39	19.20 19.46	70.35 71.31	19.51 19.78	70.26 71.22	19.82	73
75	72.44	19.41	72.36	19.73	72.27	20.04	72.18	20.09	75
76	73.41	19.67	73.32	19.99	73.24	20.31	73.15	20.63	76
77	74.38	19.93	74.29	20.25	74.20	20.58	74.11	20.90	77
78 79	75.34 76.31	20.19 20.45	75.25 76.22	20.52 20.78	75.16 76.13	20.84 21.11	75.07 76.03	21.17	78 79
80	77.27	20.71	77.18	21.04	77.09	21.38	77.00	21.72	80
81	78.24	20.96	78.15	21.31	78.05	21.65	77.96	21.99	81
82	79.21	21.22	79.11	21.57	79.02	21.91	78.92	22.26	82
83	80.17	21.48	80.08	21.83	79.98	22.18	79.88	22.53	83
84 85	81.14 82.10	21.74 22.00	81.04 82.01	22.09 22.36	80.94 81.91	22.45 22.72	80.85 81.81	22.80 23.07	84 85
86	83.07	22.26	82.97	22.62	82.87	22.98	82.77	23.34	86
87	84.04	22.52	83.94	22.88	83.84	23.25	83.73	23.62	87
88 89	85.00 -85.97	22.78 23.03	84.90 85.87	23.15 23.41	84.80 85.76	23.52 23.78	84.70 85.66	23.89 24.16	88 89
90	86.93	23.29	86.83	23.67	86.73	24.05	86.62	24.43	90
91	87.90	23.55	87.80	23.94	87.69	24.32	87.58	24.70	91
92	88.87	23.81	88.76	24.20	88.65	24.59	88.55	24.97	92
93	89.83	24.07	89.73	24.46	89.62	24.85	89.51	25.24	93 94
94 95	90.80 91.76	24.33 24.59	90.69 91.65	24.72 24.99	90.58 91.54	25.12 25.39	90.47	25.52 25.79	95
96	92.73	24.85	92.62	25.25	92.51	25.65	92.40	26.06	96
97	93.69	25.11	93.58	25.51	93.47	25.92	93.36	26.33	97
98 99	94.66 95.63	25.36 25.62	94.55 95.51	25.78 26.04	94.44	26.19 26.46	94.32 95.28	26.60 26.87	98 99
100	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	100
Jce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Jee.
Distance	·75 I	Deg.	743	Deg.	741	Deg.	741	Deg.	Distance.

					,				
Distance	16	Deg.	164	Deg.	164	Deg.	164	Deg.	Distance
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
1 2	0.96 1.92	0.28 0.55	0.96 1.92	0.28 0.56	0.96 1.92	0.28 0.57	0.96 1.92	0.29 0.58	1 2
3	2.88	0.83	2.88	0.84	2.88	0.85	2.87	0.86	3
4	3.85	1.10	3.84	1.12	3.84	1.14	3.83	1.15	4
5 6	4.81 5.77	1.38 1.65	4.80 5.76	1.40 1.68	4.79 5.75	1.42	4.79 5.75	1.44	6
7	6.73	1.93	6.72	1.96	6.71	1.99	6.70	2.02	7
8	7.69 8.65	2.21 2.48	7.68 8.64	2.24 2.52	7.67 8.63	2.27 2.56	7.66 8.62	2.31 2.59	8
10	9.61	2.76	9.60	2.80	9.59	2.84	9.58	2.88	10
11 12	10.57 11.54	3.03 3.31	10.56 11.52	3.08 3.36	10.55 11.51	3.12 3.41	10.53 11.49	3.17 3.46	11 12
13	12.50	3.58	12.48	3.64	12.46	3.69	12.45	3.75	13
14	13.46	3.86	13.44	3.92	13.42	3.98	13.41	4.03	14
15 16	14.42 15.38	4.13 4.41	14.40 15.36	4.20	14.38 15.34	4.26	14.36 15.32	4.32	15 16
17	16.34	4.69	16.32	4.76	16.30	4.83	16.28	4.90	17
18 19	17.30   18.26	4.96 5.24	17.28 18.24	5.04 5.32	17.26 18.22	5.11 5.40	17.24 18.19	5.19 5.48	18 19
20	19.23	5.51	19.20	5.60	19.18	5.68	19.15	5.76	20
21 22	20.19 21.15	5.79 6.06	20.16 21.12	5.88 6.16	20.14 21.09	5.96 6.25	20.11 21.07	6.05 6.34	21 22
23	22.11	6.34	22.08	6.44	22.05	6.53	22.02	6.63	23
24	23.07	6.62	23.04	6.72	23.01	6.82	22.98	6.92	24
25 26	24.03 24.99	6.89 7.17	24.00 24.96	7.00 7.28	23.97 24.93	7.10 7.38	23.94 24.90	7.20	25 26
27	25.95	7.44	25.92	7.56	25.89	7.67	25.85	7.78	27
28	26.92	7.72	26.88	7.84	26.85	7.95	26.81 27.77	8.07	28
29 30	27.88 28.84	7.99 8.27	27.84 28.80	8.11 8.39	27.81 28.76	8.24 8.52	28.73	8.36 8.65	29 30
31 32	29.80	8.54	29.76	8.67 8.95	29.72	8.80 9.09	29.68 30.64	8.93	31
33	30.76 31.72	8.82 9.10	30.72 31.68	9.23	30.68 31.64	9.09	31.60	9.22	32
34	32.68	9.37	32.64	9.51	32.60	9.66	32.56	9.80	34
35 36	33.64 34.61	9.65 9.92	33.60 34.56	9.79 10.07	33.56 34.5 <b>2</b>	9.94	33.51 34.47	10.09	35 36
37	35.57	10.20	35.52	10.35	35.48	10.22	35.43	10.66	37
38	36.53	10.47	36.48	10.63	36.44	10.79	36.39	10.95	38
39 40	37.49 38.45	10.75 11.03	37.44 38.40	10.91 11.19	37.39 38.35	11.08 11.36	37.35 38.30	11.24 11.53	39 40
41	39.41	11.30	39.36	11.47	39.31	11.64	39.26	11.82	41
42 43	40.37 41.33	11.58 11.85	40.32	11.75 12.03	40.27	11.93 12.21	40.22	12.10	42 43
44	42.30	12.13	42.24	12.31	42.19	12.50	42.13	12.68	44
45	43.26	12.40	43.20	12.59	43.15	12.78	43.09	12.97	45 46
.46 47	44.22 45.18	12.68 12.95	44.16 45.12	12.87 13.15	44.11 45.06	13.06 13.35	44.05 45.01	13.26 13.55	46
48	46.14	13.23	46.08	13.43	46.02	13.63	45.96	13.83	48
49 50	47.10 48.06	13.51 13.78	47.04 48.00	13.71 13. <del>9</del> 9	46.98 47.94	13.92 14. <b>20</b>	46.92 47.88	14.12 14.41	49 50
ė	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ું ફ
Distance	74 1	Deg.	73}	Deg.	79}	Deg.	731	Deg.	Distance.

Distance.	16 I	)eg. '	161	Deg.	161	Deg.	162	Deg.	Distance.
8.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	8
51	49.02	14.06	48.96	14.27	48.90	14.48	48.84	14.70	51
52	49.99	14.33 14.61	49.92 50.88	14.55 14.83	49.86 50.82	14.77 15.05	49.79 50.75	14.99 15.27	52 53
53 54	50.95 51.91	14.88	51.84	15.11	51.78	15.03	51.71	15.56	54
55	52.87	15.16	52.80	15.39	52.74	15.62	52.67	15.85	55
56	53.83	15.44	53.76	15.67	53.69	15.90	53.62	16.14	56
57	54.79	15.71	54.72	15.95	54.65	16.19	54.58	16.43	57
58	55.75	15.99	55.68	16.23	55.61	16.47	55.54	16.72	58
59	56.71	16.26	56.64	16.51	56.57	16.76	56.50	17.00	59
60	57,68	16.54	57.60	16.79	57.53	17.04	57.45	17.29	60
61 62	58.64	16.81 17.09	58.56	17.07	58.49	17.32 17.61	58.41	17.58	61 62
63	59.60 60.56	17.37	59.52 60.48	17.35 17.63	59.45 60.41	17.89	59.37 60.33	17.87 18.16	63
64	61.52	17.64	61.44	17.91	61.36	18.18	61.28	18.44	64
65	62.48	17.92	62.40	18.19	62.32	18.46	62.24	18.73	65
66	63:44	18.19	63.36	18.47	63.28	18.74	63.20	19.02	66
67	64.40	18.47	64.32	18.75	64.24	19.03	64.16	19.31	67
68	65.37	18.74	65.28	19.03	65.20	19.31	65.11	19.60	68
69	66.33	19.02	66.24	19.31	66.16	19.60	66.07	19.89	69
70	67.29	19.29	67.20	19.59	67.12	19.88	67.03	20.17	70
71	68.25	19.57	68.16	19.87	68.08	20.17	67.99	20.46	71
72	69.21	19.85	69.12	20.15	69.03	20.45	68.95	20.75	72
73	70.17	20.12	70.08	20.43	69.99	20.73	69.90	21.04	73
74	71.13	20.40	71.04	20.71	70.95	21.02	70.86	21.33	74
75 76	72.09 73.06	20.67 20.95	72.00 72.96	20.99	71.91 72.87	21.30	71.82 72.78	21.61	75 76
77	74.02	21.22	73.92	21.55	73.83	21.87	73.73	22.19	77
78	74.98	21.50	74.88	21.83	74.79	22.15	74.69	22.48	78
79	75.94	21.78	75.84	22.11	75.75	22.44	75.65	22.77	79
80	76.90	22.05	76.80	22.39	76.71	22.72	76.61	23.06	80
81	77.86	22.33	77.76	22.67	77.66	23.01	77.56	23.34	81
82	78.82	22.60	78.72	22.95	78.62	23.29	78.52	23.63	82
83	79.78	22.88	79.68	23.23	79.58	23.57	79.48	23.92	83
84	80.75	23.15	80.64	23.51	80.54	23.86	80.44	24.21	84
85 86	81.71	23.43	81.60	23.79	81.50	24.14	81.39	24.50	85
86 87	82.67 83.63	23.70 23.98	82.56 83.52	24.07 24.35	82.46 83.42	24.43 24.71	82.35 83.31	24.78 25.07	86
88	84.59	24.26	84.48	24.62	84.38	24.71	84.27	25.36	88
89	85.55	24.53	85.44	24.90	85.33	25.28	85.22	25.65	89
90	86.51	24.81	86.40	25.18	86.29	25.56	86.18	25.94	90
91	87.47	25.08	87.36	25.46	87.25	25.85	87.14	26.23	91
92	88.44	25.36	88.32	25.74	88.21	26.13	88.10	26.51	92
93	89.40	25.63	89.28	26.02	89.17	26.41	89.05	26.80	93
94	90.36	25.91	90.24	26.30	90.13	26.70	90.01	27.09	94
95 96	91.32 92.28	26.19 26.46	91.20	26.58	91.09	26.98	90.97	27.38	95 96
97	93.24	26.74	92.16 93.12	26.86 27.14	92.05 93.01	27.27 27.55	91.93 92.88	27.67 27.95	97
98	94.20	27.01	94.08	27.42	93.96	27.83	93.84	28.24	98
99	95.16	27.29	95.04	27.70	94.92	28.12	94.80	28.53	99
100	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	100
8	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	8
Distance	w <sub>4</sub> :	D	=01	D	F0:	D	W01	n	Distance.
Ä	V4.1	Deg.	732	Deg.	734	Deg.	734	Deg.	ā

			سسب						
Distance.	17	Deg.	171	Deg.	171	Deg.	172	Deg.	Distance
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ıce.
1	0.96	0.29	0.95	0.30	0.95	0.30	0.95	0.30	1
2	1.91	0.58	1.91	0.59	1.91	0.60	1.90	0.61	2
3	2.87	0.88	2.87	0.89	2.86	0.90	2.86	0.91	3
4	3.83	1.17	3.82	1.19	3.81	1.20	3.81	1.22	4
5	4.78	1.46	4.78	1.48	4.77	1.50	4.76	1.52	5
6 7	5.74 6.69	1.75 2.05	5.73 6.69	1.78 2.08	5.72 6.68	1.80 2.10	5.71 6.67	1.83 2.13	5 6 7
8	7.65	2.34·	7.64	2.37	7.63	2.41	7.62	2.44	8
9	8.61	2.63	8.60	2.67	8.58	2.71	8.57	2.74	9
10	9.56	2.92	9.55	2.97	9.54	3.01	9.52	3.05	10
11	10.52	3.22	10.51	3.26	10.49	3.31	10.48	3.35	11
12	11.48	3.51	11.46	3.56	11.44	3.61	11.43	3.66	12
13	12.43	3.80	12.42	3.85	12.40	3.91	12.38	3.96	13
14	13.39	4.09	13.37	4.15	13.35	4.21	13.33	4.27	14
15	14.34	4.39	14.33	4.45	14.31	4.51	14.29	4.57	15
16	15.30	4.68	15.28	4.74	15.26	4.81	15.24	4.88	16
17	16.26	4.97	16.24	5.04	16.21	5.11	16.19	5.18	17
18	17.21	5.26	17.19	5.34	17.17	5.41	17.14	5.49	18
19	18.17	5.56	18.15	5.63	18.12	5.71	18.10	5.79	19
20	19.13	5.85	19.10	5.93	19.07	6.01	19.05	6.10	20
21	20.08	6.14	20.06	6.23	20.03	6.31	20.00	6.40	21
22	21.04	6.43	21.01	6.52	20.98	6.62	20.95	6.71	22
23	21.99	6.72	21.97	6.82	21.94	6.92	21.91	7.01	23
24	22.95	7.02	22.92	7.12	22.89	7.22	22.86	7.32	24
25	23.91	7.31	23.88	7.41	23.84	7.52	23.81	7.62	25
26	24.86	7.60	24.83	7.71	24.80	7.82	24.76	7.93	26
27	25.82	7.89	25.79	8.01	25.75	8.12	25.71	8.23	27
28	26.78	8.19	26.74	8.30	26.70	8.42	26.67	8.54	28
29	27.73	8.48	27.70	8.60	27.66	8.72	27.62	8.84	29
30	28.69	9.06	28.65	9.19	28.61	9.02	28.57	9.15	30 31
32	30.60	9.36	30.56	9.49	30.52	9.62	30.48	9.76	32
33	31.56	9.65	31.52	9.79	31.47	9.92	31.43	10.06	33
34	32.51	9.94	32.47	10.08	32.43	10.22	32.38	10.37	34
35	33.47	10.23	33.43	10.38	33.38	10.52	33.33	10.67	35
36	34.43	10.53	34.38	10.68	34.33	10.83	34.29	10.98	36
37	35.38	10.82	35.34	10.97	35.29	11.13	35.24	11.28	37
38	36.34	11.11	36.29	11.27	36.24	11.43	36.19	11.58	38
39	37.30	11.40	37.25	11.57	37.19	11.73	37.14	11.89	39
40	38.25	11.69	38.20	11.86	38.15	12.03	38.10	12.19	40
41	39.21	11.99	39.16	12.16	39.10	12.33	39.05	12.50	41
42	40.16	12.28	40.11	12.45	40.06	12.63	40.00	12.80	42
43	41.12	12.57	41.07	12.75	41.01	12.93	40.95	13.11	43
44	42.08	12.86	42.02	13.05	41.96	13.23	41.91	13.41	44
45	43.03	13.16	42.98	13.34	42.92	13.53	42.86	13.72	45
46	43.99	13.45	43.93	13.64	43.87	13.83	43.81	14.02	46
47	44.95	13.74	44.89	13.94	44.82	14.13	44.76	14.33	47
48	45.90	14.03	45.84	14.23	45.78	14.43	45.71	14.63	48
49	46.86	14.33	46.80	14.53	46.73	14.73	46.67	14.94	49
50	47.82	14.62	47.75	14.83	47.69	15.04	47.62	15.24	50
g	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	e
Distance.	<u> </u>	Deg.	721 Deg.			Deg.	<del></del> -	Deg.	Distance.

			<u> </u>						Н
Distance.	17 I	Deg.	174 ]	Deg.	17 <u>1</u> 1	Deg.	174 1	Deg.	Distance
noe.	Lat.	Dep.	Lat.	Dep.	Lat.	,Dep.	Lat.	Dep.	Çē.
51	48.77	14.91	48.71	15.12	48.64 49.59	15.34 15.64	48.57	15.55	51
52 53	49.73 50. <b>6</b> 8	15.20 15.50	49.66 50.62	15.42 · 15.72	50.55	15.94	49.52	15.85 16.16	52 53
54	51.64	15.79	51.57	16.01	51.50	16.24	51.43	16.46	54
55	52.60	16.08	52.53	16.31	52.45	16.54	52.38	16.77	55
56.	53.55	16.37	53.48	16.61	53.41	16.84	53.33	17.07	56
57	54.51	16.67	54.44	16.90	54.36	17.14	54.29	17.38	57
58	55.47 56.42	16.96	55.39 56.35	17.20 17.50	55.3 <b>2</b> 56.2 <b>7</b>	17.44 17.74	55.24 56.19	17.68 17.99	58 59
59 60	57.38	17.25 17.54	57.30	17.79	57.22	18.04	57.14	18.29	60
61	58.33	17.83	58.26	18.09	58.18	18.34	58.10	18.60	61
62	59.29	18.13	59.21	18.39	59.13	18.64		18.90	62
63	60.25	18.42	60.17	18.68	60.08	18.94	60.00	19.21	63
64 65	61.20 62.16	18.71 19.00	61.12 62.08	18.98 19.28	61.04	19.25 19.55	60.95	19.51 19.82	65
66	63.12	19.30	63.03	19.57	62.95	19.85	62.86	20.12	66
67	64.07	19.59	63.99	19.87	63.90	20.15	63.81	20.43	67
68	65.03	19.88	64.94	20.16	64.85	20.45	64.76	20.73	68
69	65.99	20.17	65.90	20.46	65.81	20.75	65.72	21.04	69
70	66.94	20.47	66.85	20.76	66.76	21.05	66.67	21.34	70
71	67.90	20.76	67.81	21.05	67.71	21.35	67.62	21.65	71
72	68.85	21.05	68.76	21.35	68.67	21.65	68.57	21.95	72
73	69.81	21.34	69.72	21.65	69.62	21.95	69.52	22.26	73
74 75	70.77 71.72	21.64 21.93	70.67	21.94 22.24	70.58 71.53	22.25	70.48	22.56 22.86	74
76	72.68	22.22	72.58	22.54	72.48	22.85	72.38	23.17	76
77	73.64	22.51	73.54	22.83	73.44	23.15	73.33	23.47	77
78	74.59	22.80	74.49	23.13	74.39	23.46	74.29	23.78	78
79	75.55	23.10	75.45	23.43	75.34	23.76	75.24	24.08	79
80	76.50	23.39	76.40	23.72	76.30	24.06	76.19	24.39	80
81	77.46	23.68	77.36	24.02	77.25	24.36	77.14	24.69	81
82	78.42	23.97	78.31	24.32	78.20	24.66	78.10	25.00	82
83	79.37	24.27	79.27	24.61	79.16	25.96	79.05	25.30	83
84 85	80.33 81.29	24.56 24.85	80.22	24.91 25.21	80.11 81.07	25.26 25.56	80.00 80.95	25.61 25.91	84
86	82.24	25.14	82.13	25.50	82.02	25.86	81.91	26.22	86
87	83.20	25.44	83.09	25.80	82.97	26.16	82.86	26.52	87
88	84.15	25.73	84.04	26.10	83.93	26.46	83.81	26.83	88
89	85.11	26.02	85.00	26.39	84.88	26.76	84.76	27.13	89
90	86.07	26.31	85.95	26.69	85.83	27.06	85.72	27.44	90
91	87.02	26.61	86.91	26.99	86.79	27.36	86.67	27.74	91
92	87.98	26.90	87.86	27.28	87.74	27.66	87.62	28.05	92
93 94	88.94	27.19	88.82	27.58	88.70	27.97	88.57	28.35	93
94 95	89.89 90.85	27.48 27.78	89.77 90.73	27.87 28.17	89.65 90.60	28.27 28.57	89.53 90.48	<b>28.66</b> <b>28.96</b>	94 95
96	91.81	28.07	91.68	28.47	91.56	28.87	91.43	29.27	96-
97	92.76	28.36	92.64	28.76	92.51	29.17	92.38	29.57	97
98	93.72	28.65	93.59	29.06	93.46	29.47	93.33	29.88	98
99	94.67	28.94	94.55	29.36	94.42	29.77	94.29	30.18	99
100	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	100
8	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	noe.
Distance.	73 D	leg.	72}	Deg.	723	Deg.	721	Deg.	Distance.

Distance	18	Deg.	184	Deg.	18}	Deg.	18‡	Deg.	Dist
ince.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Distance.
1 2 3 4 5 6 7 8 9	0.95 1.90 2.85 3.80 4.76 5.71 6.66 7.61 8.56 9.51	0.31 0.62 0.93 1.24 1.55 1.85 2.16 2.47 2.78 3.09	0.95 1.90 2.85 3.80 4.75 5.70 6.65 7.60 8.55 9.50	0.31 0.63 0.94 1.25 1.57 1.88 2.19 2.51 2.82 3.13	0.95 1.90 2.84 3.79 4.74 5.69 6.64 7.59 8.53 9.48	0.32 0.63 0.95 1.27 1.59 1.90 2.22 2.54 2.86 3.17	0.95 1.89 2.84 3.79 4.73 5.68 6.63 7.58 8.52 9.47	0.32 0.64 0.96 1.29 1.61 1.93 2.25 2.57 2.89 3.21	1 2 3 4 5 6 7 8 9
11 12 13 14 15 16 17 18 19 20	10.46 11.41 12.36 13.31 14.27 15.22 16.17 17.12 18.07 19.02	3.40 . 3.71 4.02 4.33 4.64 4.94 5.25 5.56 5.87 6.18	10.45 11.40 12.35 13.30 14.25 15.20 16.14 17.09 18.04 18.99	3.44 3.76 4.07 4.38 4.70 5.01 5.32 5.64 5.95 6.26	10.43 11.38 12.33 13.28 14.22 15.17 16.12 17.07 18.02 18.97	3.49 3.81 4.12 4.44 4.76 5.08 5.39 5.71 6.03 6.35	10.42 11.36 12.31 13.26 14.20 15.15 16.10 17.04 17.99 18.94	3.54 3.86 4.18 4.50 4.82 5.14 5.46 5.79 6.11 6.43	11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30	19.97 20.92 21.87 22.83 23.78 24.73 25.68 26.63 27:58 28.53	6.49 6.80 7.11 7.42 7.73 8.03 8.34 8.65 8.96 9.27	19.94 20.89 21.84 22.79 23.74 24.69 25.64 26.59 27.54 28.49	6.58 6.89 7.20 7.52 7.83 8.14 8.46 8.77 9.08 9.39	19.91 20.86 21.81 22.76 23.71 24.66 25.60 26.55 27.50 28.45	6.66 6.98 7.30 7.62 7.93 8.25 8.57 8.88 9.20 9.52	19.89 20.83 21.78 22.73 23.67 24.62 25.57 26.51 27.46 28.41	6.75 7.07 7.39 7.71 8.04 8.36 8.68 9.00 9.32 9.64	21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40	29.48 30.43 31.38 32.34 33.29 34.24 35.19 36.14 37.09 38.04	9.58 9.89 10.20 10.51 10.82 11.43 11.74 12.05 12.36	29.44 30.39 31.34 32.29 33.24 34.19 35.14 36.09 37.04 37.99	9.71 10.02 10.33 10.65 10.96 11.27 11.59 11.90 12.21 12.53	29.40 30.35 31.29 32.24 33.19 34.14 35.09 36.04 36.98 37.93	9.84 10.15 10.47 10.79 11.11 11.42 11.74 12.06 12.37 12.69	29.35 30.30 31.25 32.20 33.14 34.09 35.04 35.98 36.93 37.88	9.96 10.29 10.61 10.93 11.25 11.57 11.89 12.21 12.54 12.86	31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50	38.99 39.94 40.90 41.86 42.80 43.75 44.70 45.65 46.60 47.55	12.67 12.98 13.29 13.60 13.91 14.21 14.52 14.83 15.14 15.45	38.94 39.89 40.84 41.79 42.74 43.69 44.64 45.59 46.54 47.48	12.84 13.15 13.47 13.78 14.09 14.41 14.72 15.03 15.36 15.66	36.88 39.83 40.78 41.73 42.67 43.62 44.57 45.52 46.47 47.42	13.01 13.33 13.64 13.96 14.28 14.60 14.91 15.23 15.55 15.87	38.82 39.77 40.72 41.66 42.61 43.56 44.51 45.45 46.40 47.35	13.18 13.50 13.82 14.14 14.46 14.79 15.11 15.43 15.75 16.07	41 42 43 44 45 46 47 48 49 50
Distance.	Dep. 72 1	Lat. Deg.	Dep. Lat.		71½	Lat. Deg.	711	Lat. Deg.	Distance.

-	<u>سبب</u>								
Distance	18 I	Deg.	181	Deg.	18½ I	Deg.	1 <del>9}</del> I	) eg.	Distance.
į.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Çē.
51	48.50	15.76	48.43	15.97	48.36	16.18	48.29	16.39	51
52	49.45 50.41	16.07	49.38 50.33	16.28 16.60	49.31 50.26	16.50	49.24	16.71	52
53 54	51.36	16.38 16.69	51.28	16.91	51.21	16.82 17.13	50.19 51.13	17.04 17.36	53 54
55	52.31	17.00	52.23	17.22	52.16	17.45	52.08	17.68	55
56	53.26	17.30	53.18	17.54	53.11	17.77	53.03	18.00	56
57 58	54.21 55.16	17.61 17.92	54.13 55.08	17.85 18.16	54.05 55.00	18.09 18.40	53.98 54.92	18.32 18.64	57 58
50 59	56.11	18.23	56.03	18.48	55.95	18.72	55.87	18.96	59
60	57.06	18.54	56.98	18.79	56.90	19.04	56.82	19.29	60
61	58.01	18.85	57.93	19.10	57.85	19.36	57.76	19.61	61
62 63	58.97 59.92	19.16 19.47	58.88 59.83	19.42	58.80 59.74	19.67 19.99	58.71 59.66	19.93 20.25	62 63
64	60.87	19.78	60.78	20.04	60.69	20.31	60.60	20.57	64
65	61.82	20.09	61.73	20.36	61.64	20.62	61.55	20.89	65
66	62.77	20.40	62.68	20.67	62.59	20.94	62.50	21.22	66
67 68	63.72 64.67	20.70 21.01	63.63 64.58	20.98 21.30	63.54 64.49	21.26 21.58	63.44 64.39	21.54	68
69	65.62	21.32	65.53	21.61	65.43	21.89	65.34	22.18	69
70\	66.57	21.63	66.48	21.92	66.38	22.21	66.29	22.50	70
71	67.53	21.94	67.43	22.23	67.33 68.28	22.53	67.23	22.82	71 72
72 73	68.48 69.43	22.25° 22.56	68.38 69.33	22.55 22.86	69.23	22.85 23.16	68.18 69.13	23.14 23.47	73
74	70.38	22.87	70.28	23.17	70.18	23.48	70.07	23.79	74
75	71.33	23.18	71.23	23.49	71.12	23.80	71.02	24.11	75
76	72.28	23.49	72.18	23.80	72.07	24.12	71.97	24.43	76 77
77 78	73.23 74.18	23.79 24.10	74.08	24.11 24.43	73.02 73.97	24.43	72.91 73.86	24.75 25.07	78
79	75.13	24.41	75.03	24.74	74.92	25.07	74.81	25.39	79
80	76.08	24.72	75.98	25.05	75.87	25.38	75.75	25.72	80
81	77.04	25.03	76.93	25.37	76.81	25.70	76.70	26.04	81
82 83	77.99 78.94	25.34 25.65	77.88 78.83	25.68 25.99	77.76 78.71	26.02 26.34	77.65 78.60	26.36 26.68	82
84	79.89	25.96	79.77	26.31	79.66	26.65	79.54	27.00	84
85	80.84	26.27	80.72	26.62	80.61	26.97	80.49	27.32	85
86 87	81.79 82.74	26.58 26.88	81.67 82.62	26.93 27.25	81.56	27.29 27.61	81.44 82.38	27.64 27.97	86
88	83.69	27.19	83.57	27.56	82.50 83.45	27.92	83.33	28.29	88
89	84.64	27.50	84.52	27.87	84.40	28.24	84.28	28.61	89
90	85.60	27.81	85.47	28.18	85.35	28.56	85.22	28.93	90
91	86.55	28.12	86.42	28.50	86.30	28.87	86.17	29.25	91
92	87.50	28.43	87.37	28.81	87.25	29.19	87.12	29.57	92
93 94	88.45 89.40	28.74 29.05	88.32 89.27	29.12 29.44	88.19 89.14	29.51 29.83	88.06 89.01	29.89 30.22	93 94
95	90.35	29.36	90.22	29.75	90.09	30.14	89.96	30.54	95
96	91.30	29.67	91.17	30.06	91.04	30.46	90.91	30.86	96
97	92.25	29.97	92.12	30.38	91.99	30.78	91.85	31.18	97 98
98 99	93.20 94.15	30.28 30.59	93.07	30.69 31.00	92.94 93.88	31.10 31.41	92.80 93.75	31.50 31.82	99
100	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	100
ė	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	8
Distance.	72 I	)er.	712	Deg.	713	Deg.	711	Deg.	Distance.
Ā	121	~5.	,114	~56.	•13	~65.	• • • • • • • • • • • • • • • • • • • •	~ <b>9</b> .	A

Dist	19	Deg.	191	Deg.	191	Deg.	19‡	Deg.	Dist
Distance.	Lat.	Dep	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Distance.
1 2 3 4 5 6 7 8 9	0.95 1.89 2.84 3.78 4.73 5.67 6.62 7.56 8.51 9.46	0.33 0.65 0.98 1.30 1.63 1.95 2.28 2.60 2.93 3.26	0.94 1.89 2.83 3.78 4.72 5.66 6.61 7.55 8.50 9.44	0.33 0.66 0.99 1.32 1.65 1.98 2.31 2.64 2.97 3.30	0.94 1.89 2.83 3.77 4.71 5.66 6.60 7.54 8.48 9.43	0.33 0.67 1.00 1.34 1.67 2.00 2.34 2.67 3.00 3.34	0.94 1.88 2.82 3.76 4.71 5.65 6.59 7.53 8.47 9.41	0.34 0.68 1.01 1.35 1,69 2.03 2.37 2.70 3.04 3.38	1 2 3 4 5 6 7 8 9
11 12 13 14 15 16 17 18 19 20	10.40 11.35 12.29 13.24 14.18 15.13 16.07 17.02 17.96 18.91	3.58 3.91 4.23 4.56 4.88 5.21 5.53 5.86 6.19 6.51	10.38 11.33 12.27 13.22 14.16 15.11 16.05 16.99 17.94 18.88	3.63 3.96 4.29 4.62 4.95 5.28 5.60 5.93 6.26 6.59	10.37 11.31 12.25 13.20 14.14 15.08 16.02 16.97 17.91 18.85	3.67 4.01 4.34 4.67 5.01 5.34 5.67 6.01 6.34 6.68	10.35 11.29 12.24 13.18 14.12 15.06 16.00 16.94 17.88 18.82	3.72 4.06 4.39 4.73 5.07 6.41 5.74 6.08 6.42 6.76	11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30	19.86 20.80 21.75 22.69 23.64 24.58 25.53 26.47 27.42 28.37	6.84 7.16 7.49 7.81 8.14 8.46 8.79 9.12 9.44 9.77	19.83 20.77 21.71 22.66 23.60 24.55 25.49 26.43 27.38 28.32	6.92 7.25 7.58 7.91 8.24 8.57 8.90 9.23 9.56 9.89	19.80 20.74 21.68 22.62 23.57 24.51 25.45 26.39 27.34 28.28	7.01. 7.34 7.68 8.01 8.35 8.68 9.01 9.35 9.68 10.01	19.76 20.71 21.65 22.59 23.53 24.47 25.41 26.35 27.29 28.24	7.10 7.43 7.77 8.11 8.45 8.79 9.12 9.46 9.80 10.14	21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40	29.31 30.26 31.20 32.15 33.09 34.04 34.98 35.93 36.88 37.82	10.09 10.42 10.74 11.07 11.39 11.72 12.05 12.37 12.70 13.02	29.27 30.21 31.15 32.10 33.04 33.99 34.93 35.88 36.82 37.76	10.22 10.55 10.88 11.21 11.54 11.87 12.20 12.53 12.86 13.19	29.22 30.16 31.11 32.05 32.99 33.94 34.88 35.82 36.76 37.71	10.35 10.68 11.02 11.35 11.68 12.02 12.35 12.68 13.02 13.35	29.18 30.12 31.06 32.00 32.94 33.88 34.82 35.76 36.71 37.65	10.48 10.81 11.15 11.49 11.83 12.17 12.50 12.84 13.18 13.52	31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50	38.77 39.71 40.66 41.60 42.55 43.49 44.44 45.38 46.33 47.28 Dep.	13.35 13.67 14.00 14.32 14.65 14.98 15.30 15.63 15.63 15.95 16.28	38.71 39.65 40.60 41.54 42.48 43.43 44.37 45.32 46.26 47.20 Dep.	13.52 13.85 14.18 14.51 14.84 15.17 15.50 15.83 16.15 16.48	38.65 39.59 40.53 41.48 42.42 43.36 44.30 45.25 46.19 47.13	13.69 14.02 14.35 14.69 15.02 15.36 15.69 16.02 16.36 16.69	38.59 39.53 40.47 41.41 42.35 43.29 44.24 45.18 46.12 47.06 Dep.	13.85 14.19 14.53 14.87 15.21 15.54 16.22 16.56 16.90 Lat.	41 42 43 44 45 46 47 48 49 50
Distance.	71 I		<del></del> -	Deg.	701		701		Distance.

Distance	19 ]	Deg.	194	Deg.	19}	Deg.	19‡	Deg.	Distance
nce.	Lat.	Dep.	Ļat.	Dep.	Lat.	Dep.	Lat.	Dap.	nce.
51 52 53 54 55 56 57 58 59 60	48.22 49.17 50.11 51.06 52.00 52.95 53.89 54.84 55.79 56.73	16.60 16.93 17.26 17.58 17.91 18.23 18.56 18.88 19.21 19.53	48.15 49.09 50.04 50.98 51.92 52.87 53.81 54.76 55.70 56.65	16.81 17.14 17.47 17.80 18.13 18.46 18.79 19.12 19.45	48.07 49.02 49.96 50.90 51.85 52.79 53.73 54.67 55.62 56.56	17.02 17.36 17.69 18.03 18.36 18.69 19.03 19.36 19.69 20.03	48.00 48.94 49.88 50.82 51.76 52.71 53.65 54.59 55.53 54.47	17.23 17.57 17.91 18.25 18.59 18.92 19.26 19.60 19.94 20.27	51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70	57.68 58.62 59.57 60.51 61.46 62.40 63.35 64.30 65.24 66.19	19.86 20.19 20.51 20.84 21.16 21.49 21.81 22.14 22.46 22.79	57.59 58.53 59.48 60.42 61.37 62.31 63.25 64.20 65.14 66.09	20.11 20.44 20.77 21.10 21.43 21.76 ,22.09 22.42 22.75 23.08	57.50 58.44 59.39 60.33 61.27 62.21 63.16 64.10 65.04 65.98	20.36 20.70 21.03 21.36 21.70 22.03 22.37 22.70 23.03 23.37	57.41 58.35 59.29 60.24 61.18 62.12 63.06 64.00 64.94 65.88	20.61 20.95 21.29 21.63 21.96 22.30 22.64 22.98 23.32 23.65	61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80	67.13 68.08 69.02 69.97 70.91 71.86 72.80 73.75 74.70 75.64	23.12 23.44 23.77 24.09 24.42 24.74 25.07 25.39 25.72 26.05	67.03 67.97 68.92 69.86 70.81 71.75 72.69 73.64 74.58 75.53	23.41 23.74 24.07 24.40 24.73 25.06 25.39 25.72 26.05	66.93 67.87 68.81 69.76 70.70 71.64 72.58 73.53 74.47 75.41	23.70 24.03 24.37 24.70 25.04 25.37 25.70 26.04 26.37 26.70	66.82 67.76 68.71 69.65 70.59 71.53 72.47 73.41 74.35 75.29	23.99 24.33 24.67 25.01 25.34 25.68 26.02 26.36 26.70 27.03	71 72 73 74 75 76 77 78 79
81 82 83 84 85 86 87 88 89	76.59 77.53 78.48 79.42 80.37 81.31 82.26 83.21 84.15 85.10	26.37 26.70 27.02 27.35 27.67 28.00 28.32 28.65 28.98 29.30	76.47 77.42 78.36 79.30 80.25 81.19 82.14 83.08 84.02 84.97	26.70 27.03 27.36 27.69 28.02 28.35 28.68 29.01 29.34 29.67	76.35 77.30 78.24 79.18 80.12 81.07 82.01 82.95 83.90 84.84	27.04 27.37 27.71 28.04 28.37 28.71 29.04 29.37 29.71 30.04	76.24 77.18 78.12 79.06 80.00 80.94 81.88 82.82 83.76 84.71	27.37 27.71 28.05 28.39 28.72 29.06 29.40 29.74 30.07 30.41	81 82 83 84 85 86 87 88 89 90
91 92 93 94 95 96 97 98 99 100	86.04 86.99 87.93 88.88 89.82 90.77 91.72 92.66 93.61 94.55	29.63 29.95 30.28 30.60 30.93 31.25 31.58 31.91 32.23 32.56	85.91 86.86 87.80 88.74 89.69 90.63 91.58 92.52 93.46 94.41	30.00 30.33 30.66 30.99 31.32 31.65 31.98 32.31 32.64 32.97	85.78 86.72 87.67 88.61 89.55 90.49 91.44 92.38 93.32 94.26 Dep.	30.38 30.71 31.04 31.38 31.71 32.05 32.38 32.71 33.05 33.38 Lat.	85.65 86.59 87.53 88.47 89.41 90.35 91.29 92.24 93.18 94.12 Dep.	30.75 31.09 31.43 31.76 32.10 32.44 32.78 33.12 33.45 33.79 Lat.	91 92 93 94 95 96 97 98 99 100
Distance		Deg.	701 Deg.		701		701		Distance.

Distance.		Deg.	201	Deg.	201	Deg.	201	Deg.	Distance
DC e.	L	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
1 2 3	0.94 1.88 2.82	0.34 0.68 1.03	0.94 1.88 2.81	0.35 0.69 1.04	0.94 1.87 2.81	0.35 0.70 1.05	0.94 1.87 2.81	0.35 0.71 1.06	1 2 3
4 5	3.76 4.70	1.37 1.71	3.75 4.69	1.38 1.73	3.75 4.68	1.40 1.75	3.74 4.68	1.42 1.77	4 5
6 7	5.64 6.58	2.39	5.63 6.57	2.08 2.42	5.62 6.56	2.10 2.45	5.61 6.55	2.13 2.48 2.83	6 .
8 9 10	7.52 8.46 9.40	2.74 3.08 3.4	7.51 8.44 9.38	2.77 3.12 3.46	7.49 8.43 9.37	2.80 3.15 3.50	7.48 8.42 9.35	3.19 3.54	8 9 10
11 12	10.34 11.28	3.76 4.10	10.32 11.26	3.81 4.15	10.30 11.24	3.85 4.20	10.29 11.22	3.90 4.25	11 12
13 14	12.22 13.16	4.45 4.79	12.20 13.13	4.50 4.85	12.18 13.11	4.55	12.16 13.09	4.61 4.96	13 14
15	14.10	5.13	14.07	5.19	14.05	5.25	14.03	5.31	15
16 17	15.04 15.97	5.47 5.81	15.01 15.95	5.54 5.88	14.99 15.92	5.60 5.95	14.96 15.90	5.67 6.02	16 17
18 19	16.91 17.85	6.16 6.50	16.89 17.83	6.23 6.58	16.86 17.80	6.30 6.65	16.83 17.77	6.38	18 19
20	18.79	6.84	18.76	6.92	18.73	7.00	18.70	7.09	20
21 22	19.73 20.67	7.18 7.52	19.70 20.64	7.27 7.61	19.67 20.61	7.35 7.70	19.64 20.57	7.44	21 22
23	21.61	7.87	21.58	7.96	21.54	8.05	21.51	8.15	23
24 25	22.55 23.49	8.21 8.55	22.52 23.45	8.31 8.65	22.48 23.42	8.40 8.76	22.44 23.38	8.50 8.86	24.4 25
26	24.43	8.89	24.39	9.00	24.35	9.11	24.31	9.21	26
27 28	25.37 26.31	9.23 9.58	25.33 26.27	9.35 9.69	25.29 26.23	9.46 9.81	25.25 26.18	9.57 9.92	27 28
29 30	27.25 28.19	9.92 10.26	27.21 28.15	10.04 10.38	27.16	10.16 10.51	27.12 28.05	10.27 10.63	29 30
31	29.13	10.60	29.08	10.73	29.04	10.86	28.99	10.98	31
32	30.07	10.94	30.02	11.08	29.97	11.21	29.92	11.34	32
33 34	31.01 31.95	11.29 11.63	30.96 31.90	11.42 11.77	30.91 31.85	11.56 11.91	30.86 31.79	11.69 12.05	33 34
35	32.89	11.97	32.84	12.11	32.78	12.26	32.73	12.40	35
. 36 37	33.83 34.77	12.31 12.65	33.77 34.71	12.46 12.81	33.72 34.66	12.61 12.96	33.66 34.60	12.75 13.11	36 37
38	35.71	13.00	35.65	13.15	35.59	13.31	35.54	13.11	38
39 40	36.65 37.59	13.34 13.68	36.59 37.53	13.50 13.84	36.53 37.47	13.66 14.01	36.47 37.41	13.82 14.17	39 40
41	38.53	14.02	38.47	14.19	38.40	14.36	38.34	14.53	41
42 43	39.47 40.41	14.36 • 14.71	39.40 40.34	14.54 14.88	39.34 40.28	14.71 15.06	39.28 40.21	14.88 15.23	42 43
44	41.35	15.05	41.28	15.23	41.21	15.41	41.15	15.23	44
45 46	42.29	15.39	42.22	15.58	42.15	15.76	42.08	15.94	45 46
47	43.23 44.17	15.73 16.07	43.16 44.09	15.92 16.27	43.09 44.02	16.11 16.46	43.02 43.95	16.30 16.65	47
48 49	45.11	16.42	45.03	16.61	44.96	16.81	44.89	17.01	48
50 50	46.04	16.76 17.10	45.97 46.91	16.96 17.31	45.80 46.83	17.16 17.51	45.82 46.76	17.36 17.71	49 50
ice.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ce.
Distance.	70 ]	Deg.	693	Deg.	693	Deg.	691	Deg.	Distance.

Distance.	. <b>20</b> I	Oeg.	204 ]	Deg.	203	Deg.	201	Deg.	Distance
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
51	47.92 48.86	17.44	47.85 48.79	17.65 18.00	47.77	17.86 18.21	47.69 48.63	18.07	51
52 53	49.80	17.79 18.13	49.72	18.34	49.64	18.56	49.56	18.42 18.78	52 53
54	50.74	18.47	50.66	18.69	50.58	18.91	50.50	19.13	54
55 5 <b>6</b>	51.68 52.62	18.81 19.15	51.60 52.54	19.04	51.52 52.45	19.26 19.61	51.43 52.37	19.49 19.84	55 56
57	53.56	19.50	53.48	19.73	53.39	19.96	53.30	20.19	57
58	54.50	19.84	54.42	20.07	54.33	20.31	54.24	20.55	58
<i>5</i> 9 60	55.44 56.38	20.18 20.52	55.35 56.29	20.42 20.77	55.26 56.20	20.66 21.01	55.17 56.11	20.90 21.26	59 60
61	57.32	20.86	57.23	21.11	57.14	21.36	57.04	21.61	61
62	58.26	21.21	58.17	21.46	58.07	21.71	57:98	21.97	69
63 64	59. <b>20</b> 60.14	21.55 21.89	59.11 60.04	21.81 22.15	59.01 59.95	22.06 22.41	58.91 59.85	22.32	63 64
65	61.08	22.23	60.98	22.50	60.88	22.76	60.78	23.03	65
66	62.02	22.57	61.92	22.84	61.82	23.11	61.72	23.38	66
67 68	62.96 63.90	22.92 23.26	62.86 63.80	23.19 23.54	62.76	23.46	62.65	23.74 24.09	67
69	64.84	23.60	64.74	23.88	64.63	24.16	64.52	24.45	69
70	<b>6</b> 5.78	23.94	65.67	24.23	65.57	24.51	65.46	24.80	70
71	66.72	24.28	66.61	24.57	66.50	24.86	66.39	25.15	71
72 73	67.66	24.63	67.55	24.92	67.44	25.21	67.33	25.51	72
74	68.60 69.54	24.97 25.31	68.49	25.27 25.61	68.38	25.57	68.26	25.86 26.22	74
75	70.48	25.65	70.36	25.96	70.25	26.27	70.14	26.57	75
76	71.42	25.99	71.30	26.30	71.19	26.62	71.07	26.93	76
77 78	72.36 73.30	26.34 26.68	72.24 73.18	26.65 27.00	72.12 73.06	26.97 27.32	72.01 72.94	27.28 27.63	77
79	74.24	27.02	74.12	27.34	74.00	27.67	73.88	27.99	79
80	75.18	27.36	75.06	27.69	74.93	28.02	74.81	28.34	80
81	76.12	27.70	75.99	28.04	75.87	28.37	75.75	28.70	81
82 83	77.05	28.05	76.93	28.38	76.81	28.72	76.68	29.05	82
84	77.99 78.93	28.39 28.73	77.87 78.81	28.73 29.07	77.74 78.68	29.07 29.42	77.62 78.55	29.41 29.76	83 84
85	79.87	29.07	79.75	29.42	79.62	29.77.	79.49	30.11	85
86	80.81	29.41	80.68	29.77	80.55	30.12	80.42	30.47	86
87 88	81.75 82.69	29.76 30.10	81.62 82.56	30.11 30.46	81.49 82.43	30.47 30.82	81.36 82.29	30.82 31.18	87 88
89	83.63	30.44	83.50	30.80	83.36	31.17	83.23	31.53	89
90	84.57	30.78	84.44	31.15	84.30	31.52	84.16	31.89	90
91	85.51	31.12	85.38	31.50	85.24	31.87	85.10	32.24	91
92 93	86.45 87.39	31.47 31.81	86.31	31.84 32.19	86.17	32.22 32.57	86.03	32.59	92   93
94	88.33	32.15	87.25 88.19	32.19	87.11 88.05	32.92	87.90	32.95 33.30	94
95	89.27	32.49	89.13	32.88	88.98	33.27	88.84	33.66	95
96 97	90.21	32.83	90.07	33.23	89.92	33.62	89.77	34.01 34.37	96 97
98	91.15 92.09	33.18 33.52	91.00 91.94	33.57 33.92	90.86 91.79	33.97 34.32	90.71 91.64	34.72	98
99	93.03	33.86	92.88	34.27	92.73	34.67	92,58	35.07	99
100	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	70 E	er.	692	Dee.	691	Dee.	694	Deg.	Distance.
a	.V L	-8.	304	- eg.	009	-es.	1	- ~B.	Q

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ū	01.1		611	D	011	D	911	n .	ם
Distance.	21 1	Deg.	214	Deg.	213	Deg.	211	Deg.	Distance
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	· Dep.	Lat.	Dep.	nce.
1	0.93	0.36	0.93	0.36	0.93	0.37	0.93	0.37	1
2	1.87 2.80	0.72 1.08	1.86 2.80	0.72 1.09	1.86 2.79	0.73 1.10	1.86 2.79	0.74 1.11	23
4	3.73	1.43	3.73	1.45	3.72	1.47	3.72	1.48	4
5	4.67	1.79	4.66	1.81	4.65	1.83	4.64	1.85	5
6	5.60	2.15	5.59	2.17	5.58	2.20	5.57	2.22	6
7 8	6.54 7.47	2.51 2.87	6.52 7.46	2.54 2.90	6.51 7.44	2.57 2.93	6.50 7.43	2.59 2.96	7
9	8.40	3.23	8.39	3.26	8.37	3.30	8.36	3.34	9
1Ŏ	9.34	3.58	9.32	3.62	9.30	3.67	9.29	3.71	10
11	10.27	3.94	10.25	3.99	10.23	4.03	10.22	4.08	11
.12 13	11.20 12.14	4.30 4.66	11.18	4.35 4.71	11.17	4.40	11.15	4.45	12 13
14	13.07	5.02	12.12 13.05	5.07	12.10 13.03	4.76 5.13	12.07 13.00	4.82 5.19	14
15	14.00	5.38	13.98	5.44	13.96	5.50	13.93	5.56	15
16	14.94	5.73	14.91	5.80	14.89	5.86	14.86	5.93	16
17	15.87	6.09	15.84	6.16	15.82	6.23	15.79	6.30	17
18 19	16.80 17.74	6.45 6.81	16.78 17.71	6.52	16.75 17.68	6.60 6.96	16.72 17.65	6.67 7.04	18 19
20	13.67	7.17	18.64	7.25	18.61	7.33	18.58	7.41	20
21	19.61	7.53	19.57	7.61	19.54	7.70	19.50	7.78	21
22	20.54	7.88	20.50	7.97	20.47	8.06 8.43	20.43	8.15	22 23
23 24	21.47 22.41	8.24 8.60	21.44 22.37	8.34 8.70	21.40 22.33	8.43	21.36 22.29	8.52 8.89	23
25	23.34	8.96	23.30	9.06	23.26	9.16	23.22	9.26	25
26	24.27	9.32	24.23	9.42	24.19	9.53	24.15	9.63	26
27	25.21	9.68	25.16	9.79	25.12	9.90	25.08	10.01	27.
28 29	26.14 27.07	10.03	26.10	10.15	26.05	10.26	26.01	10.38	28 29
3	28.01	10.39 10.75	27.03 27.96	10.51 10.87	26.98 27.91	10.63 11.00	26.94 27.86	10.75 11.12	30
31	28.94	11.11	28.89	41.24	28.84	11.36	28.79	11.49	31
32	29.87	11.47	29.82	11.60	29.77	11.73	29.72	11.86	32
33 34	30.81 31.74	11.83	30.76	11.96 12.32	30.70	12.09 12.46	30.65 31.58	12.23 12.60	33 34
35	32.68	12.18 12.54	31.69 32.62	12.69	32.56	12.40	32.51	12.97	35
36	33.61	12.90	33.55	13.05	33.50	13.19	33.44	13.34	36
37	•34.54	13.26	34.48	13.41	34.43	13.56	34.37	13.71	37
38	35.48	13.62	35.42	13.77	35.36	13.93	35.29	14.08	38
39 40	36.41 37.34	13.98 14.33	36.35 37.28	14.14 14.50	36.29 · 37.22	14.29 14.66	36.22 37.15	14.45 14.82	39. 40
41	38.28	14.69	38.21	14.86	38.15	15.03	38.08	15.19	41
42	39.21	15.05	39.14	15.22	39.08	15.39	39.01	15.56	42
43	40.14	15.41	40.08	15.58	40.01	15.76	39.94	15.93	43
44 45	41.08 42.01	15.77 16.13	41.01	15.95 16.31	40.94	16.13 16.49	40.87	16.30 16.68	44 45
46	42.94	16.48	42.87	16.67	42.80	16.86	42.73	17.05	46
47	43.88	16.84	43.80	17.03	43.73	17.23	43.65	17 42	47
48	44.81	17.20	44.74	17.40	44.66	17.59	44.58	17.79	48
49 50	45.75 46.68	17.56 17. <del>0</del> 2	45.67 46.60	17.76 18.12	45.59 46.52	17.96 18.33	45.51 46.44	18.16 18.53	49 50
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	·e.
Distance.	69 1	Deg.	68‡ Deg.		681	Deg.	681	Deg.	Distance.

Distance.	21	Deg.	21 <del>1</del>	Deg.	211	Deg. /	211	Deg.	Distance.
ce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ē.
51	47.61 48.55	18.28 18.64	47.53 48.46	18.48 18.85	47.45 48.38	18.69 19.06	47.37 48.30	18.90 19.27	51 52
52 53	49.48	18.99	49.40	19.21	49.31	19.42	49.23	19.64	53
54	50.41	19.35	50.33	19.57	50.24	19.79	50.16	20.01	54
55	51.35	19.71	51.26	19.93	51.17	20.16	51.08	20.38	55
56 57	52.28 53.21	20.07	52.19 53.12	20.30	52.10 53.03	20.52	52.01 52.94	20.75 21.12	56 57
58	54.15	20.79	54.06	21.02	53.96	21.26	53.87	21.49	58
59	55.08	21.14	54.99	21.38	54.89	21.62	54.80	21.86	59
60	56.01	21.50	55.92	21.75	-55.83	.21.99	55.73	22.23	60
61 62	56.95 57.88	21.86 22.22	56.85 57.78	22.11 22.47	56.76 57.69	22.36 22.72	56.66 57.59	22.60 22.97	61 62
63	58.82	22.58	58.72	22.83	58.62	23.09	58.52	23.35	63
64	59.75	22.94	59.65	23.20	59.55	23.46	59.44	23.72	64
65	60.68	23.29	60.58	23.56	60.48	23.82	60.37	24.09	65
66 67	61.62 62.55	23.65 24.01	61.51 62.44	23.92 24.28	61.41 62.34	24.19 24.56	61.30 62.23	24.46 24.83	66
68	63.48	24.37	63.38	24.65	63.27	24.92	63.16	25.20	68
69	64.42	24.73	64.31	25.01	64.20	25.29	64.09	25.57	69
70	65.35	25.09	65.24	25.37	65.13	25.66	65.02	25.94	70
71 72	66.28 67.22	25.44 25.80	66.17 67.10	25.73 26.10	66.06 66.99	26.02 26.39	65.95 66.87	26.31 26.68	71 72
73	68.15	26.16	68.04	26.46	67.92	26.75	67.80	27.05	73
74	69.08	26.52*	68.97	26.82	68.85	27.12	68.73	27.42	74
75	70.02	26.88	69.90	27.18	69.78	27.49	69.66	27.79	75 76
76 77	70.95 71.89	27.24 27.59	70.83	27.55 27.91	70.71 71.64	27.85 28.22	70.59 71.52	28.16 28.53	77
78	72.82	27.95	72.70	28.27	72.57	28.59	72.45	28.90	78
79	73.75	28.31	73.63	28.63	73.50	28.95	73.38	29.27	79
80	74.69	28.67	74.56	29.00	74.43	29.32	74.30	29.64	80
81 82	75.62 76.55	29.03 29.39	75.49 76.42	29.36 29.72	75.36 76.29	29.69 30.05	75.23 76.16	30.02	81 82
83	77.49	29.74	77.36	30.08	77.22	30.42	77.09	30.76	83
84	78.42	30.10	78.29	30.44	78.16	30-79	78.02	31.13	84
85 86	-79.35 80.29	30.46 30.82	79.22 80.15	30.81 31.17	79.09 80.02	31.15 31.52	78.95 79.88	31.50 31.87	85 86
87	81.22	31.48	81.08	31.53	80.95	31.89	80.81	32.24	87
88	82.16	31.54	82.02	31.89	81.88	32,25	81.74	32:61	88
89 90	83.09	31.89	82.95	32.26	82.81	32.62	82.66	32.98	89 90
-	84.02	32.25	83.88	32.62	83.74	32.99	83.59	33.35	
91	84.96	32.61	84.81	32.98	84.67	33.35	84.52	33.72	91
92 93	85.89 86.82	32.97 33.33	85.74 86.68	33.34 33.71	85.60 86.53	33.72 34.08	85.45 86.38	34.09	92 93
94	87.76	33.69	87.61	34.07	87.46	34.45	87.31	34.83	94
95	88.69	34.04	88.54	34.43	88.39	34.842	88.24	35.20	95
96	89.62	34.40	89.47	34.79	89.32	35.18	89.17	35.57	96
97 98	90.56 91.49	34.76 35.12	90.40	35.16 35.52	90.25 91.18	35.55 35.92	90.09	35.94 36.31	97 98
99	92.42	35.48	92.27	35.88	92.11	36.28	91.95	36.69	99
100	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance	69 1	Deg.	684	Deg.	681	Deg.	681	Deg.	Distance.
		,-8-	1	9.	303				Α

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Distance.	21	Deg.	211	Deg.	213	Deg.	213	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
-1	0.93	0.36	0.93	0.36	0.93	0.37	0.93	0.37	1
2	1.87	0.72	1.86	0.72	1.86	0.73	1.86	0.74	2
3	2.30	1.08	2.80	1.09	2.79	1.10	2.79	1.11	3
4	3.73	1.43	3.73	1.45	3.72	1.47	3.72	1.48	4
5 6	4.67	1.79	4.66	1.81	4.65	1.83	4.64	1.85	5
7	5.60 6.54	2.15	6.52	2.17	5.58	2.20	5.57	2.22	6
8	7.47	2.51	7.46	2.90	6.51 7.44	2.57	6.50 7.43	2.59	8
9	8.40	3.23	8.39	3.26	8.37	3.30	8.36	3.34	9
10	9.34	3.58	9.32	3.62	9.30	3.67	9.29	3.71	10
11	10.27	3.94	10.25	3.99	10.23	4.03	10.22	4.08	11
12	11.20	4.30	11.18	4.35	11.17	4.40	11.15	4.45	12
13	12.14	4.66	12.12	4.71	12.10	4.76	12.07	4.82	13
14	13.07	5.02	13.05	5.07	13.03	5.13	13.00	5.19	14
15	14.00	5.38	13.98	5.44	13.96	5.50	13.93	5.56	15
16	14.94	5.73	14.91	5.80	14.89	5.86	14.86	5.93	16
17 18	15.87 16.80	6.09	15.84 16.78	6.16	15.82	6.23	15.79 16.72	6.30	17 18
19	17.74	6.81	17.71	6.89	17.68	6.96	17.65	7.04	19
20	13.67	7.17	18.64	7.25	18.61	7.33	18.58	7.41	20
21	19.61	7.53	19.57	7.61	19.54	7.70	19.50	7.78	21
22	20.54	7.88	20.50	7.97	20.47	8.06	20.43	8.15	22
23	21.47	8.24	21.44	8.34	21.40	8.43	21.36	8.52	23
24	22.41	8.60	22.37	8.70	22.33	8.80	22.29	8.89	24
25	23.34	8.96	23.30	9.06	23.26	9.16	23.22	9.26	25
26	24.27	9.32	24.23	9.42	24.19	9.53	24.15	9.63	26 27
27	25.21 26.14	9.68	25.16	9.79	25.12	10.26	25.08 26.01	10.01	28
28 29	27.07	10.03	26.10 27.03	10.15	26.05	10.63	26.94	10.75	29
30	28.01	10.75	27.96	10.87	27.91	11.00	27.86	11.12	30
31	28.94	11.11	28.89	11.24	28.84	11.36	28.79	11.49	31
32	29.87	11.47	29.82	11.60	29.77	11.73	29.72	11.86	32
33	30.81	11.83	30.76	11.96	30.70	12.09	30.65	12.23	33
34	31.74	12.18	31.69	12.32	31.63	12.46	31.58	12.60	34
35	32.68	12.54	32.62	12.69	32.56	12.83	32.51	12.97	35
36	33.61	12.90	33.55	13.05	33.50	13.19 13.56	33.44	13.34	36
37	34.54	13.26	34.48	13.41 13.77	35.36	13.93	35.29	13.71	37
38	35.48 36.41	13.62 13.98	36.35	14.14	36.29	14.29	36.22	14.45	1
40	37.34	14.33	37.28	14.50	37.22	14.66	37.15	14,9	
41	38.28	14.69	38.21	14.86	38.15	15.03	38.08		
42	39.21	15.05	39.14	15.22	39.08	15.39	39.0"		
43	40.14	15.41	40.08	15.58	40.01	15.76	39		
44	41.08	15.77	41.01	15.95	40.94	16.13			
45	42.01	16.13	41.94	16.31	41.87	16.49			
46	42.94	16.48	42.87	16.67	42.80	16.			
47	43.88	16.84	43.80	17.03	43.73	200			
48	44.81	17.20	44.74	17.40 17.76	45.59				
49 50	45.75	17.56 17.92	46.60	18.12	46.52				
ce.	Dep.	Lat.	Dep.	Lat.	Dep.				
Distance.	69 I	eg.	684	Deg.	l e				

D									
sta	21	Deg.	214	Deg.	211	Deg.	214	Deg.	Distance.
Distance.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
51	47.61	18.28	47.53	18.48	47.45	18.69	47.37	18.90	51
52	48.55	18.64	48.46	18.85	48.38	19.06	48.30	19.27	52
53	49.48	18.99	49.40	19.21	49.31	19.42	49.23	19.64	53
54	50.41	19.35	50.33	19.57	50.24	19.79	50.16	20.01	54
55	51.35	19.71	51.26	19.93	51.17	20.16	51.08	20.38	55
56	52.28	20.07	52.19 53.12	20.30	52.10	20.52	52.01	20.75	56
57 58	53.21 54.15	20.43	54.06	21.02	53.03 53.96	20.89 21.26	52.94 53.87	21.49	58
59	55.08	21.14	54.99	21.38	54.89	21.62	54.80	21.86	59
60	56.01	21.50	55.92	21.75	55.83	21.99	55.73	22.23	60
61	56.95	21.86	56.85	22.11	56.76	22.36	56.66	22.60	61
62	57.88	22.22	57.78	22.47	57.69	22.72	57.59	22.97	6
63	58.82	22.58	58.72	22.83	58.62	23.09	58.52	23.35	6.
64	59.75	22.94	59.65	23.20	59.55	23.46	59.44	23.72	6
66	60.68	23.29 23.65	60.58	23.56 23.92	60.48	23.82	60.37	24.46	6
67	62.55	24.01	62.44	24.28	62.34	24.56	62.23	24.83	6
68	63.48	24.37	63.38	24.65	63.27	24.92	63.16	25.20	6
69	64.42	24.73	64.31	25.01	64.20	25.29	64.09	25.57	16
70	65.35	25.09	65.24	25.37	65.13	25.66	65.02	25.94	-
71	66.28	25.44	66.17	25.73	66.06	26.02	65.95	26.31	
72 73	67.22	25.80 26.16	67.10	26.10	66.99	26.39	66.87		
74	69.08	26.52	68.04 68.97	26.46 26.82	68.85	27.12	68.73		
75	70.02	26.88	69.90	27.18	69.78	27.49	69.66		
76	70.95	27.24	70.83	27.55	70.71	27.85	70.59	28.1	
77	71.89	27.59	71.76	27.91	71.64	28.22	71.52		
78 79	72.82	27.95	72.70	28.27	72.57	28.59	72.45		
80	73.75 74.69	28.31 28.67	73.63 74.56	28.63 29.00	73.50 74.43	28.95 29.32	74.30		
81	75.62	29.03	75.49	29.36	75.36	29.69	75.23		
82	76.55	29.39	76.42	29.72	76.29	30.05	76.36	30.38	٩B
83	77.49	29.74	77.36	30.08	77.22	30.42	77.00	(8000)	58
84	78.42	30.10	78.29 79.22	30.44	78.16	30.79	78:05 78:05	The same	8
86	79.35 80.29	30.46	80.15	30.81	79.09 80.02	31-32	The Res	Siller	S
87	81.22	31.18	81.08	31.53	80.95	31.35	BLE!	<b>400</b> 0	ы
BB	82.16	31.54	82.02	31.89	81.88	20 30:	193729		la
39	83.09	31.89	82.95	32.26	82-81	20.00	2000	200	23
	84.02	32.25	83.88	32.62	83.74	2530	-		3
00		32-61	84.81	32.98	34.67 95.50	53		No.	3
	1.96	32.97							-
	1 196	32.97		93.71	95.73	(3/8)	<b>E</b>	-	
	1 96	33.33			年記	3/8	100 H	1	7
	1 76	33.33		93.71	26.70	30			7777
		33.33		1.07	年記	3/8 3/6 3/8 3/8	912 912 913 917 917		10000
	ad	33.33		1.07	年記	347 343 343 343 343 343	912) 912) 917 917 910 11 12		44444
	7. 15. 19.	33.33		1.07	年記	347 343 343 343 343 343 343 343 343 343	912 108 807 800 11 2:		2222444
	. 42 6.34	33.33		1.07	年記	34 34 34 34 34 34 34 34 34 34 34 34 34 3	123 124 847 840 13.13 13.13 13.15		- Danagar
	2 Te	33.33		1.07	年記	· · · · · · · · · · · · · · · · · · ·	100 100 100 100 100 100 100 100 100 100		200000000000000000000000000000000000000
	20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	33.33	1	1.07	年記	SAPE SAPE SAPE SAPE SAPE SAPE SAPE SAPE	EEE CONTRACTOR OF THE PERSON NAMED IN CO		
	12 12 13 1	33.33	>	1.07	年記	345 345 345 345 345 345	10 10 10 10 10 10 10 10 10 10 10 10 10 1		The state of the s

Distance	l	Deg.		Deg.		Deg.		Deg.	Distance
i.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	.00
1	0.93	0.37	0.93	0.38	0.42	0.38	0.92	0.39	1
2 3	1.85 2.78	0.75	1.85 2.78	0.76	1.85 2.77	0.77 1.15	1.84 2.77	0.77	2 3
4	3.71	1.12 1.50	3.70	1.14 1.51	3.70	1.53	3.69	1.16 1.55	4
5	4.64	1.87	4.63	1,89	4.62	1.91	4.61	1.93	5
6	5.56	2.25	5.55	2.27	5.54	2.90	5.53	2.32	6
7 8	6.49 7.42	2.62. 3.00	6.48 7.40	2.65 3.03	6.47 7.39	2.68 3.06	6.46 7.38	2.71 3.09	7 8
9	8.34	3.37	8.33	3.41	8.31	3.44	8.30	3.48	9
10	9.27	3.75	9.26.	3.79	9.24	3.83	9.22	3.87	10
11	10.20	4.12	10.18	4.17	10.16	4.21	10.14	4.25	11
12 13	11.13 12.05	4.50 4.87	11.11	4.54	11.09 12.01	4.59	11.07 11.99	4.64 5.03	12 13
14	12.98	5.24	12.96	5.30	12.93	5.36	12.91	5.41	14
15	13.91	5.62	13.88	5.68	13.86	5.74	13.83	5.80	15
16 17	14.83 15.76	5,99 6.37	14.81 15.73	6.06	14.78 15.71	6.12 6.51	14.76 15.68	6.19	16
18	16.69	6.74	16.66	6.82	16.63	6.89	16.60	6.96	18
19	17.62	7.12	17.59	7.19	17.55	7.27	17.52	7.35	19
20	18.54	7.49	18.51	7.57	18.48	7.65	18.44	7.73	20
21 22	19.47 20.40	7.87 8.24	19.44 20.36	7.95 8.33	19.40 20.33	8.04 8.42	19.37 20.29	8.12 8.51	21 22
23	21.33	8.62	21.29	8.71	21.25	8.80	21.21	8.89	23
24	22.25	8.99	22.21	9.09	22.17	9.18	22.13	9.28	24
25	23.18	9.37	23.14	9.47	23.10	9.57	23.05	9.67	25
26 27	24.11 25.03	9.74 10.11	24.06 24.99	9.84	24.02 24.94	9.95 10.33	23.98 24.90	10.05	26 27
28	25.96	10.49	25.92	10.60	25.87	10.72	25.82	10.83	28
29	26.89	10.86	26.84	10.98	26.79	11.10	26.74	11.21	29
30	27.82	11.24	27.77	11.36	27.72	11.48	27.67	11.60	30
31 32	28.74 29.67	11.61 11.99	28.69 29.62	11.74 12.12	28.64 29.56	11.86 12.25	28.59 29.51	11.99 12.37	31 32
33	30.60	12.36	30.54	12.50	30.49	12.63	30.43	12.76	33
34	31.52	12.74	31:47	12.87	*31.41	13.01	31.35	13.15	34
35 36	32.45 33.38	13.11 13.49	32.39 33.32	13.25 13.63	32.34 33.26	13.39 13.78	32.28 33.20	13.53 13.92	35 36
37	34.31	13.49	34.24	14.01	34.18	14.16	34.12	14.31	37
38	35.23	14.24	35.17	14.39	35.11	14.54	35.04	14.70	38
39	36.16	14.61	36.10	14.77	36.03	14.92	35.97	15.08	39
40	37.09	14.98	37.02	15.15	36.96	15.31	36.89	15.47	40
41 42	38.01 38.94	15.36 15.73	37.95 38.87	15.52 15.90	37.88 38.80	15.69 16.07	37.81 38.73	15.86 16.24	41 42
43	39.87	16.11	39.80	16.28	39.73	16.46	39.65	16.63	43
44	40.80	16.48	40.72	16.66	40.65	16.84	40.58	17.02	44
45	41.72	16.86	41.65	17.04	41.57	17.22	41.50	17.40	45
46 47	42.65 43.58	17.23 17.61	42.57 43.50	17.42 17.80	42.50 43.42	17.60 17.99	42.42 43.34	17.79 18.18	46 47
48	44.50	17.98	44.43	18.18	44.35	18.37	44.27	18.56	48
49	45.43	18.36	45.35	18.55-	45.27	18.75	45.19	18.95	49
50	46.36	18.73	46.28	18.93	46.19	19.13	46.11	19.34	50
nce,	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance,	68 ]	Deg.	672	Deg.	673	Deg.	67¥ .	Deg.	Distance.

Distance	<b>2</b> 2 I	Deg.	221 1	Deg.	22} I	eg.	22 <b>‡</b> I	)eg.	Distance
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	noe.
51 52	47.29 48.21	19.10 19.48	47.20 48.13	19.31 19.69	47.12 48.04	19.52 19.90	47.03 47.95	19.72 20.11	51 52
63	49.14	19.85	49.05	20.07	48.97	20.28	48.88	20.50	53
54	50.07	20.23	49.98	20.45	49.89	20.66 21.65	49.80	20.88	54
55	51.00	20.60	50.90	20.83	50.81		50.72	21.27	55
56	51.92 52.85	20.98	51.83 52.76	21.20 21.58	51.74 52.66	21.43 21.81	51.64 52.57	21.66 22.04	56 57
57 58	53.78	21.73	53.68	21.96	53.59	22.20	53.49	22.43	58
59	54.70	22.10	54.61	22.34	54.51	22.58	54.41	2.82	59
60	<b>55.6</b> 3	22.48	55:53	22.72	55.43	22.96	55.33	23.20	60
61 62	56.56 57.49	22.85 23.23	56.47 57.38	23.10 23.48	56.36 57.28	23.34 23.73	56.25 57.18	23.59 23.98	61 62
63	58.41	23.60	58.31	23.85	58.20	24.11	58.10	24.36	63
64	59.34	23.97	59.23	24.23	59.13	24.49	59.02	24.75	64
65	60.27	24.35	60.16	24.61	60:05	24.87	59.94	25.14	65
66	61.19	24.72	61.09	24.99	60.98	25.26	60.87	25.52	66
67 68	62.12 63.05	25.10 25.47	62.01 62.94	25.37 25.75	61.90 62.82	25.64 26.02	61.79 62.71	25.91 26.30	67 68
69	63.98	25.85	63.86	26.13	63.75	26.41	63.63	26.68	69
70	64.90	26.22	64.79	26.51	64.67	26.79	64.55	27.07	70
71	65.83	26.60	65.71	26.88	65.60	27.17	65.48	27.46	71
72	66.76	26.97	66.64	27.26	66.52	27.55	66.40	27.84	72
73 74	67.68 68.61	27.35 27.72	67.56	27.64 28.02	67.44	27.94 28.32	67.32 68.24	28.23 28.62	73 74
75	69 54	28.10	69.42	28.40	69.29	28.70	69.17	29.00	75
-76	70.47	28.47	70.34	28.78	701	29.08	70.09	29.39	76
77	71.39	28.84	71.27	£9.16	M:14	29.47	71.01	29.78	77
78	72.32	29.22	72.19	29.53	72.06	29.85	71.93	30.16	78
79 80	73.25 74.17	29.59 29.97	73.12 74.04	29.91 30.29	72.99 73.91	30.23 30.61	72.85 73.78	30.55 30.94	79 80
81	75.10	30.34	74.97	30.67	74.83	31.00	74.70	31.32	81
82	76.03	30.72	75.89	31.05	75.76	31.38	75.62	31.71	82
83	76.96	31.09	76.82	31.43	76.68	31.76	76.54	32.10	83
84	77.88	31.47	77.75	31.81	77.61	32.15	77.46	32.48	84
85 86	78.81 79.74	31.84 32.22	78.67 79.60	32.19 32.56	78.53 79.45	32.53	78.39 79.31	32.87	85 86
87	80.66	32.59	80.52	32.94	80.38	33.29	80.23	33.64	87
88	81.59	32.97	81.45	33.32	81.30	33.68	81.15	34.03	88
89	82.52	33.34	82.37	33.70	82.23	34.06	82.08	34.42	89
90	83.45	33.71	83.30	34.08	83.15	34.44	83.00	34.80	90
91	84.37	34.09	84.22	34.46	84.07	34.82	83.92	35.19	91
92	85.30	34.46	85.15	34.84	85.00	35.21	84.84	35.58	92
93 94	86.23 87.16	34.84	86.08 87.00	35.21	85.92 86.84	35.59	85.76	35.96 36.35	93 94
95	88.08	35.21 35.59	87.93	35.59 35.97	87.77	35.97 36.35	86.69 87.61	36.74	95
96	89.01	35.96	88.85	36.35	88.69	36.74	88.53	37.12	96
97	89.94	36.34	89.78	36.73	89.62	37.12	89.45	37.51	.97
98	90.86	36.71	90.70	37.11	90.54	37.50	90.38	37.90	98
99 100	91.79 92.72	37.09 37.46	91.63 92.55	37.49 37.86	91.46 92.39	37.89 38. <b>27</b>	91.30 92.22	38.28 38.67	99 100
Jce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ce.
Distance.	68 1	Deg.	673	Değ.	671	Deg.	671	Deg.	Distance

Distance	23	Deg.	231	Deg.	231	Deg.	231	Deg.	Distance.
mce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
1 2 3 4 5 6 7 8 9	0.92 1.84 2.76 3.68 4.60 5.52 6.44 7.36 8.28 9.20	0.39 0.78 1.17 1.56 1.95 2.34 2.74 3.13 3.52 3.91	0.92 1.84 2.76 3.68 4.59 5.51 6.43 7.35 8.27 9.19	0.39 0.79 1.18 1.58 1.97 2.37 2.76 3.16 3.55 3.95	0.92 1.83 2.75 3.67 4.59 5.50 6.42 7.34 8.25 9.17	0.40 0.80 1.20 1.59 1.99 2.39 2.79 3.19 3.59 3.99	0.92 4 1.83 2.75 3.66 4.58 5.49 6.41 7.32 8.24 9.15	0.40 0.81 1.21 1.61 2.01 2.42 2.82 3.22 3.62 4.03	1 2 3 4 5 6 7 8 9
11 12 13 14 15 16 17 18 19 20	10.13 11.05 11.97 12.89 13.81 14.73 15.65 16.57 17.49 18.41	4.30 4.69 5.08 5.47, 5.86 6.25 6.64 7.03 7.42 7.81	10.11 11.03 11.94 112.86 13.78 14.70 15.62 16.54 17.46 18.38	4.34 4.74 5.13 5.53 5.92 6.32 6.71 7.11 7.50 7.89	10.09 11.00 11.92 12.84 13.76 14.67 15.59 16.51 17.42 18.34	4.39 4.78 5.18 5.58 5.98 6.38 6.78 7.18 7.58	10.07 10.98 11.90 12.81 13.73 14.64 15.56 16.48 17.39 18.31	4.43 4.83 5.24 5.64 6.04 6.85 7.25 7.65 8.05	11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30	19.33 20.25 21.17 22.09 23.01 23.93 24.85 25.77 26.69 27.62	8.21 8.60 8.99 9.38 9.77 10.16 10.55 10.94 11.33 11.72	19.29 20.21 21.13 22.05 22.97 23.89 24.81 25.73 26.64 27.56	8.29 8.68 9.08 9.47 9.87 10.65 11.05 11.45 11.84	19.26 20.18 21.09 22.01 22.93 23.84 24.76. 25.68 26.59 27.51	8.37 8.77 9.17 9.57 9.97 10.37 10.77 11.16 11.56	19.22 20.14 21.05 21.97 22.88 23.80 24.71 25.63 26.54 27.46	8.46 8.86 9.26 9.67 10.07 10.47 11.28 11.68 12.08	21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40	28.54 29.46 30.38 31.30 32.22 33.14 34.06 34.98 35.90	12.11 \12.50 12.89 13.28 13.68 14.07 14.46 14.85 15.24 15.63	28.48 29.40 30.32 31.24 32.16 33.08 34.00 34.91 35.83 36.75	12.24 12.63 13.03 13.42 13.82 14.21 14.61 15.00 15.39 15.79	28.43 29.35 30.26 31.18 32.10 33.01 33.93 34.85 35.77 36.68	12.36 12.76 13.16 13.56 13.96 14.35 14.75 15.15 15.55	28.37 29.29 30.21 31.12 32.04 32.95 33.87 34.78 35.70 36.61	12.49 12.89 13.29 13.69 14.10 14.50 14.90 15.30 15.71 16.11	31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50	37.74 38.66 39.58 40.50 41.42 42.34 43.26 44.18 45.10 46.03	16.02 16.41 16.80 17.19 17.58 17.97 18.36 18.76 19.15	37.67 38.59 39.51 40.43 41.35 42.26 43.18 44.10 45.02 45.94	16.18 16.58 16.97 17.37 17.76 18.16 18.55 18.95 19.34 19.74	37.60 38.52 39.43 40.35 41.27 42.18 43.10 44.02 44.94 45.85	16.35 16.75 17.15 17.54 17,94 18.34 18.74 19.14 19.54 19.94	37.53 38.44 39.36 40.27 41.19 42.10 43.02 43.93 44.85 45.77 Dep.	16.51 16.92 17.32 17.72 18.12 18.53 18.93 19.33 19.73 20.14 Lat.	41 42 43 44 45 46 47 48 49 50
Distance.	Dep. 67 1	Deg.	Dep. 661	Lat. Deg.	Dep.	Deg.		Deg.	Distance.

the same									
Distance	23 1	Deg.	23 <del>1</del>	Deg.	231	Deg.	231	Deg.	Distance.
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
51	46.95	19.93	46.86	20.13	46.77	20.34	46.68	20.54	51
52 53	47.87 48.79	20.32 20.71	47.78	20.53 20.92	47.69	20.73 21.13	47.60 48.51	20.94 21.35	5 <b>2</b> 53
54	49.71	21.10	49.61	21.32	49.52	21.53	49.43	21.75	54
55	50.63	21.49	50.53	21.71	50.44	21.93	50.34	22.15	55
56	51.55	21.88	51.45	22.11	51.36	22.33	51.26	22.55	56
57	52.47	22.27	52.37	22.50	52.27	22.73	52.17	22.96	57
58	53.39	22.66	53.29	22.90	53.19	23.13	53.09	23.36	58
59 60	54.31 55.23	23.05 23.44	54.21 55.13	23.29 23.68	54.11 55.02	23.53 23.92	54.00 54.92	23.76 24.16	59 60
61	56.15	23.83	56.05	24.08	55.94	24.32	55.83	24.57	61
62	57.07	24.23	56.97	24.47	56.86	24.72	56.75	24.97	62
63	57.99	24.62	57.88	24.87	57.77	25.12	57.66	25.37	63
64	58.91	25.01	58.80	25.26 25.66	58.69	25.52	58.58	25.78 26.18	64
65 66	59.83 60.75	25.40 25.79	59.72 60.64	26.05	59.61 60.53	25.92 26.32	59.50 60.41	26.18	65 66
67	61.67	26.18	61.56	26.45	61.44	26.72	61.33	26.98	67
68	62.59	26.57	62.48	26.84	62.36	27.11	62.24	27.39	68
69	63.51	26.96	63.40	27.24	63.28	27.51	63.16	27.79	69
70	64.44	27.35	64.32	27.63	64.19	27.91	64.07	28.19	70
71	65.36	27.74	65.23	28.03	.65.11	28.31	64.99	28.59	71
72 73	66.28	28.13	66.15	28.42 28.82	66.03	28.71 29.11	65.90	29.00	72 73
74	67.20 68.12	28.52 28.91	67.07 67.99	29.21	66.95	29.11	67.73	29.40 29.80	74
75	69.04	29.30	68.91	29.61	68.78	29.91	68.65	30.21	75
76	69.96	29.70	69.83	30.00	69.70	30.30	69.56	30.61	76
77	70.88	30.09	70.75	30.40	70.61	30.70	70.48	31.01	77
78	71.80	30.48	71.67	30.79	71.53	31.10	71.39	31.41	78
79	72.72	30.87	72.58	31.18	72.45	31.50	72.31	31.82	79
80	73.64	31.26	73.50	31.58	73.36	31.90	73.22	32.22	80
81	74.56	31.65	74.42	31.97	74.28	32.30	74.14	32.62	81
82	75.48	32.04	75.34	32.37	75.20	32.70	75.06	33.03	82 83
83 84	76.40 77.32	32.43 32.82	76.26 77.18	32.76 33.16	76.12 77.03	33.10	75.97 76.89	33.43	84
85	78.24	33.21	78.10	33.55	77.95	33.89	77.80	34.23	85
86	79.16	33.60	79.02	33.95	78.87	34.29	78.72	34.64	86
87	80.08	33.99	79.93	34.34	79.78	34.69	79.63	35.04	87
88	81.00	34.38	80.85	34.74	80.70	35.09	80.55	35.44	88
89	81.92	34.78	81.77	35.13	81.62	35.49	81.46	35.84	89
90	82.85	35.17	82.69	35.53	82.54	35.89	82.38	36.25	90
91	83.77	35.56	83.61w	35.92	83.45	36.29	83.29	36.65	91
92	84.69	35:95	84.53	36.32	84.37	36.68	84.21	37.05	92
93 94	85.61	36.34	85.45	36.71	85.29	37.08	85.12 86.04	37.46	93 94
95	86.53 87.45	36.73 37.12	86.37 87.29	37.11 37.50	86.20 87 12	37.48 37.88	86.95	37.86	94
96	88.37	37.51	88.20	37.90	88.04	38.28	87.87	38.66	96
97	89.29	37.90	89.12	38.29	88.95	38.68	88.79	39.07	97
98	90.21	38.29	90.04	38.68	89.87	39.08	89.70	39.47	98
99	91.13	38.68	90.96	39.08	90.79	39.48	90.62	39.87	99
100	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance	67	Deg.	664	Deg.	66 <u>3</u>	Deg.	661	Deg.	Distance

Distance	24	Deg.	241	Deg.∖	241	Deg.	243	Deg.	Distance
ce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
1 2 3	0.91 1.83 2.74	0.41 0.81 1.22	0.91 1.82 2.74	0.41 0.82 1.23	0.91 1.82 2.73	0.41 0.83 1.24	0.91 ,1.82 2.72	0.42 0.84 1.26	1 2 3
4 5	3.65 4.57	1.63 2.03	3.65 4.56	1.64 2.05	3.64 4.55	1.66 2.07	3.63 4.54	1.67 2.09	<b>4</b> 5
6	5.48	2.44	5.47	2.46	5.46	2.49	5.45	2.51	6
7 8	6.39 7.31	2.85 3.25	6.38 7.29	2.87 3.29	6.37 7.28	2.90 3.32	6.36 7.27	2.93 3.35	8
. 9 10	8.22 9.14	3.66 4.07	8.21 9.12	3.70 4.11	8.19 9.10	3.73 4.15	8.17 9.08	3.77 4.19	9 10
11	10.05	4.47	10.03	4.52	10.01	4.56	9.99	4.61	11
12 13	10.96 11.88	4.88 5.29	10.94 11.85	4.93 5.34	10.92	4.98 5.39	10.90 11.81	5.02 5.44	12 13
14 15	12.79 13.70	5.69 6.10	12.76 13.68	5.75 6.16	12.74 13.65	5.81 6.22	12.71 13.62	5.86 6.28	14 15
16	14.62	6.51	14.59	6.57	14.56	6.64	14.53	6.70	16
17 18	15.53 16.44	6.92 7.32	15.50 16.41	6.98 7.39	15.47 16.38	7.05 7.46	15.44 16.35	7.12 7.54	17 18
19	17.36	7.73	17.32	7.80	17.29	7.88	17.25	7.95	19
20	18.27	8.13	18.24	8.21	18.20	8.29	18.16	8.37	20
21 22	19.18 20.10	8.54 8.95	19.15 20.06	8.63 9.04	19.11 20.02	8.71 9.12	19.07	8.79 9.21	21 22
23	21.01	9.35	20.97	9.45	20.93	9.54	20.89	9.63	23
24 25	21.93 22.84	9.76 10.17	21.88	9.86 10.27	21.84 22.75	9.95 10.37	21.80	10.05 10.47	24 25
26	23.75	10.58	23.71	10.68	23.66	10.78	23.61	10.89	26
27 28	24.67 25.58	10.98 11.39	24.62 25.53	11.09 11.50	24.57	11.20 11.61	24.52 25.43	11.30 11.72	27 28
29 29	26.49	11.80	26.44	11.91	26.39	12.03	26.34	12.14	29
30	27.41	12.20	27.35	12.32	27.30	12.44	27.24	12.56	30
31 32	28.32 29.23	12.61 13.02	28.26 29.18	12.73 13.14	28.21 29.12	12.86 13.27	28.15 29.06	12.98 13.40	31 32
33	30.15	13.42	30.09	13.55	30.03	13.68	29.97	13.82	33
34 35	31.06 31.97	13.83 14.24	31.00 31.91	13.96 14.38	30.94 31.85	14.10 14.51	30.88	14.23 14.65	34 35
36	32.89	14.64	32.82	14.79	32.76	14.93	32.69	15.07	36
37 38	33.80 34.71	15.05 15.46	33.74	15.20 15.61	33.67 34.58	15.34 15.76	33.60 34.51	15.49 15.91	37 38
39	35:63	15.86	35.56	16.02	35.49	16.17	35.42	16.33	39
40	36.54	16.27	36.47	16.43	36.40	16.59	36.33	16.75	40
41 42	37.46 38.37	16.68 17.08	37.38 38.29	16.84 17.25	37.31 38.22	17.00 17.42	37.23 38.44	17.16 17.58	41 42
42	39.28	17.49	39.21	17.25	39.13	17.42	39.05	18.00	42
44	40.20	17.90	40.12	18.07	40.04	18.25	39.96	18.42	44
45 46	41.11 42.02	18.30 18.71	41.03	18.48 18.89	40.95 41.86	18.66 19.08	40.87	18.84 19.26	45 46
47	42.94	19.12	42.85	19.30	42.77	19.49	42.68	19.68	47
48 49	43.85 44.76	19.52 19.93	43.76	19.71 20.13	43.68	19.91 20.32	43.59 44.50	20.10 20.51	48 49
50	45.68	20.34	45.59	20.54	45.50	20.73	45.41	20.93	50
noe.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	66 I	Oeg.	652	Deg.	65 <u>1</u>	Deg.	65 <del>1</del>	Deg.	Distance.

Distance	24 I	Deg.	241	Deg.	241 1	Deg.	24}	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
51 52 53 54 55 56 57 58 59 60	46.59 47.50 48.42 49.33 50.24 51.16 52.07 52.99 53.90 54.81	20.74 21.15 21.56 21.96 22.37 22.78 23.18 23.59 24.00 24.40	46.50 47.41 48.32 49.24 50.15 51.06 51.97 52.88 53.79 54.71	20.95 21.36 21.77 22.18 22.59 23.00 20.11 23.82 24.23 24.64	46.41 47.32 48.23 49.14 50.05 50.96 51.87 52.78 53.69 54.60	21.15 21.56 21.98 22.39 22.81 23.22 23.64 24.05 24.47 24.88	46.32 47.22 48.13 49.04 49.95 50.86 51.76 52.67 53.58 54.49	21.35 21.77 22.19 22.61 23.03 23.44 23.86 24.28 24.70 25.12	51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70	55.73 56.64 57.55 58.47 59.38 60.29 61.21 62.12 63.03 63.95	24.81 25.22 25.62 26.03 26.44 26.84 27.25 27.66 28.06 28.47	55.62 56.53 57.44 58.35 59.26 60.18 61.09 62.00 62.91 63.82	25.05 25.46 25.88 26.29 26.70 27.11 27.52 27.93 28.34 28.75	55.51 56.42 57.33 58.24 59.15 60.06 60.97 61.88 62.79 63.70	25.30 25.71 26.13 26.54 26.96 27.37 27.78 28.20 28.61 29.03	55.40 56.30 57.21 58.12 59.03 59.94 60.85 61.75 62.66 63.57	25.54 25.96 26.38 26.79 27.21 27.63 28.05 28.47 28.89 29.31	61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80	64.86 65.78 66.69 67.60 68.52 69.43 70.34 71.26 72.17 73.08	28.88 29.28 29.69 30.10 30.51 30.91 31.32 31.73 32.13 32.54	64.74 65.65 66.56 67.47 68.38 69.29 70.21 71.12 72.03 72.94	29.16 29.57 29.98 30.39 30.80 31.21 31.63 32.04 32.45 32.86	64.61 65.52 66.43 67.34 68.25 69.16 70.07 70.98 71.89 72.80	29.44 29.86 30.27 30.69 31.10 31.52 31.93 32.35 32.76	64.48 65.39 66.29 67.20 68.11 69.02 69.93 70.84 71.74 72.65	29.72 30.14 30.56 30.98 31.40 31.82 32.24 32.66 33.07 33.49	71 72 73 74 75 76 77 78 79
81\ 82 83 84 85 86 87 88 89 90	74.00 74.91 75.82 76.74 77.65 78.56 79.48 80.39 81.31 82.22	32.95 33.35 33.76 34.17 34.57 34.98 35.39 35.79 36.20 36.61	73.85 74.76 75.68 76.59 77.50 78.41 79.32 80.24 81.15 82.06	33.27 33.68 34.09 34.50 34.91 35.32 35.73 36.14 36.55 36.96	73.71 74.62 75.53 76.44 77.35 78.26 79.17 80.08 80.99 81.90	33.59 34.00 34.42 34.83 35.25 35.66 36.08 36.49 36.91 37.32	73.56 74.47 75.38 76.28 77.19 78.10 79.01 79.92 80.82 81.73	33.91 34.33 34.75 35.17 35.59 36.00 36.42 36.84 37.26 37.68	81 82 83 84 85 86 87 88 89
91 92 93 94 95 96 97 98 99 100	83.13 84.05 84.96 85.87 86.79 87.70 88.61 89.53 90.44 91.35	37.01 37.42 37.83 38.23 38.64 39.05 39.45 39.86 40.27 40.67	82.97 83.88 84.79 85.71 86.62 87.53 88.44 89.35 90.26 91.18	37.38 37.79 38.20 38.61 39.02 39.43 39.84 40.25 40.66 41.07	82.81 83.72 84.63 85.54 86.45 87.36 88.27 89.18 90.09 91.00 Dep.	37.74 38.15 38.57 38.98 39.40 39.81 40.23 40.64 41.05 41.47	82.64 83.55 84.46 85.37 86.27 87.18 88.09 89.00 89.91 90.81 Dep.	38.10 38.52 38.94 39.35 39.77 40.19 40.61 41.03 41.45 41.87	91 92 93 94 95 96 97 98 99 100
Distance.	66 D		65 <del>1</del>		65½		651		Distance.

Distance	25	Deg.	251,	Deg.	25}	Deg.	251	Deg.	Distance
8	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ક
1	0.91	0.42	0.90	0.43	0.90	0.43	0.90	0.43	1
2 3	1.81 2.72	0.85 1.27	1.81 2.71	0.85 1.28	1.81 2.71	0.86 1.29	1.80 2.70	0.87 1.30	2 3
4	3.63	1.69	3.62	1.71	3.61	1.72	3.60	1.74	4
5 6	4.53 5.44	2.11 2.54	4.52 5.43	2.13 2.56	4.51	2.15 2.58	4.50	2.17	5 6
7	6.34	2.96	6.33	2.99	42	3.01	5.40 6.30	3.04	7
8	7.25	3.38	7.24	3.41	7.22	3.44	7.21	3.48	8
9 10	8.16 9.06	3.80 4.23	8.14 9.04	3.84 4.27	8.12 9.03	3.87 4.31	8.11 9.01	3.91 4.34	10
11 12	9.97 10.88	4.65 5.07	9.95 10.85	4.69 5.12	9.93 10.83	4.74 5.17	9.91 10.81	4.78 5.21	11 12
13	11.78	5.49	11.76	5.12	11.73	5.60	11.71	5.65	13
14	12.69	5.92	12.66	5.97	12.64	6.03	12.61	6.08	14
15 16	13.59 14.50	6.34 6.76	13.57 14.47	6.40 6.83	13.54 14.44	6.46	13.51 14.4	6.52	15 16
17	15.41	7.18	15.38	7.25	15.34	7.32	15.31	7.39	17
18 19	16.31 17.22	7.61 8.03	16.28 17.18	7.68 8.10	16.25 17.15	7.75	16.21	7.82	18
20	18.13	8.45	18.09	8.53	18.05	8.18 8.61	17.11 18.01	8.25 8.69	19 20
21 22	19.03 19.94	8.87 9.30	18.99 19.90	8.96 9.38	18.95 19.86	9.04 9.47	18.91 19.82	9.12 9.56	21 22
23	20.85	9.72	20.80	9.81	20.76	9.90	20.72	9.99	23
24	21.75	10.14	21.71	10.24	21.66	10.33	21.62	10.43	24
25 26	22.66 23.56	10.57 10.99	22.61 23.52	10.66 11.09	22.56 23.47	10.76 11.19	22.52 23.42	10.86	25 26
27	24.47	11.41	24.42	11.52	24.37	11.62	24.32	11.73	27
28 29	25.38 26.28	11.83 12.26	25.32 26.23	11.94 12.37	25.27 26.17	12.05 12.48	25.22 26.12	12.16 12.60	28 29
30	27.19	12.68	27.13	12.80	27.08	12.92	27.02	13.03	30
31 32	28.10 29.00	13.10 13.52	28.04 28.94	13. <b>22</b> 13.65	27.98 28.88	13.35 13.78	27.92 28.82	13.47 13.90	31 32
33	29.91	13.95	29.85	14.08	29.79	14.21	29.72	14.34	33
34 35	30.81 31.72	14.37 14.79	30.75 31.66	14.50 14.93	30.69 31.59	14.64 15.07	30.62 31.52	14.77 15.21	34 35
36	32.63	15.21	32.56	15.36	32.49	15.50	32.43	15.64	36
37	33.53	15.64	33.46	15.78	33.40	15.93	33.33	16.07	37
38 39	34.44 35.35	16.06 16.48	34.37 35.27	16.21 16.64	34.30 35.20	16.36 16.79	34.23 35.13	16.51 16.94	38 39
40	36.25	16.90	36.18	17.06	36.10	17.22	36.03	17.38	40
41 42	37.16 38.06	17.33 17.75	37.08 37.99	17.49 17.92	37.01 37.91	17.65 18.08	36.93 37.83	17.81 18.25	41 42
43	38.97	18.17	38.89	18.34	38.81	18.51	38.73	18.68	43
44	39.88	18.60	39.80	18.77	39.71	18.94	39.63	19.12	44
45 46	40.78 41.69	19.02 19.44	40.70	19.20 19.62	40.62	19.37 19.80	40.53	19.55 19.98	45 46
47	42.60	19.86	42.51	20.05	42.42	20.23	42.33	20.42	47
48	43.50	20.29	43.41	20.48	43.32	29.66	43.23 44.13	20.85	48 49
49 50	44.41 45.32	20.71 21.13	44.32 45. <b>22</b>	20.90 21.33	44.23 45.13	21.10 21.53	44.13 45.03	21.29 21.72	50
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	oce.
Distance.	65 I	Deg.	641	Deg.	641	Deg.	641	Deg.	Distance.

•			1				7		
Distance	25 ]	Deg.	25 <del>1</del>	Deg.	251	Deg.	251	Deg.	Distance
e	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	çe .
51	46.22 47.13	21.55 21.98	46.13 47.03	21.75 22.18	46.03 46.93	21.96 22.39	45.94 46.84	22.16 22.59	51 52
52 53	48.03	22.40	47.94	22.61	47.84	22.82	47.74	23.03	53
54	48.94	22.82	48.84	23.03	48.74	23.25	48.64	23.46	54
55	49.85	23.24	49.74	23.46	49.64	23.68	49.54	23.89	55
56	50.75	23.67	50.65	23.89	50.54	24.11	50.44	24.33	56
57	51.66	24.09	51.55	24.31	51.45	24.54	51.34	24.76	57
58 59	52.57 53.47	24.51 24.93	52.46 53.36	24.74 25.17	52.35 53.25	24.97 25.40	52.24 53.14	25.20 25.63	58 59
60	54.38	25.36	54.27	25.59	54.16	25.83	54.04	26.07	60
61	55.28	25.78	55.17	26.02	55.06	26.26	54.94	26.50	61
62	56.19	26.20	56.08	26.45	55.96	26.69	55.84	26.94	62
63 64	57.10 58.00	26.62 27.05	56.98 57.89	26.87 27.30	56.86 57.77	27.12 27.55	56.74 57.64	27.37	63
65	58.91	27.47	58.79	27.73	58.67	27.98	58.55	28.24	65
66	59.82	27.89	59.69	28.15	59.57	28.41	59.45	28.67	66
67	60.72	28.32	60.60	28.58	60.47	28.84	60.35	29.11	67
68	61.63	28.74	61.50	29.01	61.38	29.27	61.25	29.54	68
69 70	62.54 63.44	29.16 29.58	62.41 63.31	29.43 29.86	62.28 63.18	29.71 30.14	62.15 63.05	29.98 30.41	69 70
71	64.35	30.01	64.22	30.29	64.08	30.57	63.95	30.85	71
72	65.25	30.43	65.12	30.71	64.99	31.00	64.85	31.28	72
73 74	66.16	30.85	66.03	31.14	65.89	31.43	65.75	31.71	73
75	67.07 67.97	31.27 31.70	66.93 67.83	31.57 31.99	66.79 67.69	31.86	66.65	32.15 32.58	74
76	68.88	32.12	68.74	32.42	68.60	32.72	68.45	33.02	76
77	69.79	32.54	69.64	32.85	69.50	33.15	69.35	33.45	77
78	70.69	32.96	70.55	33.27	70.40	33.58	70.25	33.89	78
79 80	71.60 72.50	33.39 33.81	71.45 72.36	33.70 34.13	71.30 72.21	34.01 34.44	71.16 72.06	34.32 34.76	79 80
81	73.41	34.23	73.26	34.55	73.11	34.87	72.96	35.19	81
82	74.32	34.65	74.17	34.98	74.01	35.30	73.86	35.62	82
83	75.22	35.08	75.07	35.41	74.91	35.73	74.76	36.06	83
84	76.13	35.50	75.97	35.83	75.82	36.16	75.66	36.49	84
85 86	77.04 77.94	35.92 36.35	76.88	36.26 36.68	76.72	36.59	76.56 77.46	36.93	85 86
87	78.85	36.77	78.69	37.11	78.52	37.45	78.36	37.80	87
88	79.76	37.19	79.59	37.54	79.43	37.88	79.26	38.23	88
89 90	80.66 81.57	37.61 38.04	80.50 81.40	37.96 38.39	80.33 81.23	38.32 38.75	80.16 81.06	38.67 39.10	89 90
91	82.47	38.46	82.31	38.82	82.14	39.18	81.96	39.53	91
92	83.38	38.88	83.21	39.24	83.04	39.61	82.86	39.97	92
93	84.29	39.30	84.11	39.67	83.94	40.04	83.76	40.40	93
94	85.19	39.73	85.02	40.10	84.84	40.47	84.67	40.84	94
95	86.10	40.15	85.92	40.52	85.75	40.90	85.57	41.27	95
96 97	87.01 87.91	40.57 40.99	86.83 87.73	40.95 41.38	86.65 87.55	41.33 41.76	86.47 87.37	41.71	96 97
98	88.82	41.42	88.64	41.80	88.45	42.19	88.27	42.58	98
99	89.72	41.84	89.54	42.23	89.36	42.62	89.17	43.01	99
100	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	100
BCe.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance	<b>65</b> ]	Deg.	641	Deg.	641	Deg.	641	Deg.	Distance.

1			1		1,				
Distance	26	Deg.	261	Deg.	261	Deg.	261	Deg.	Distance
ંદુ	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ICe.
1	0.90	0.44	0.90	0.44	0.89	0.45	0.89	0.45	1
2 3	1.80 2.70	0.88	1.79 2.69	0.88	1.79 2.68	0.89	1.79 2.68	0.90	2 3
4	3.60	1.75	3.59	1.77	3.58	1.78	3.57	1.80	4
5	4.49	2.19	4.48	2.21	4.47	2.23	4.46	2.25	5
6	5.39	2.63	5.38	2.65	5.37	2.68	5.36	2.70	6
7 8	6.29 7.19	3.07	6.28	3.10	6.26 7.16	3.12	6.25 7.14	3.15 3.60	8
9	8.09	3.95	8.07	3.98	8.05	4.02	8.04	4.05	9
10	8.99	4.38	8.97	4.42	8.95	4.46	8.93	4.50	10
11	9.89	4.82	9.87	4.87	9.84	4.91	9.82	4.95	11
12 13	10.79 11.68	5.26 5.70	10.76 11.66	5.31 5.75	10.74	5.35 5.80	10.72	5.40 5.85	12- 13
14	12.58	6.14	12.56	6.19	12.53	6.25	12.50	6.30	14
15	13.48	6.58	13.45	6.63	13.42	6.69	13.39	6.75	15
16	14.38	7.01	14.35	7.08	14.32	7.14	14.29	7.20	16
17	15.28	7.45	15.25	7.52	15.21	7.59	15.18	7.65	17
18 19	16.18 17.08	7.89 8.33	16.14 17.04	7.96 8.40	16.11 17.00	8.03 8.48	16.07 16.97	8.10 8.55	18 19
20	17.98	8.77	17.94	8.85	17.90	8.92	17.86	9.00	20
21	18.87	9.21	18.83	9.29	18.79	9.37	18.75	9.45	21
22 23	19.77 20.67	9.64 10.08	19.73 20.63	9.73 10.17	19.69	9.82	19.65	9.90 10.35	22 23
24	21.57	10.52	21.52	10.61	20.58	10.26	20.54 21.43	10.35	24
25	22.47	10.96	22.42	11.06	22.37	11.15	22.32	11.25	25
26	23.37	11.40	. 23.32	11.50	23.27	11.60	23.22	11.70	26
27	24.27	11.84	24.22	11.94	24.16	12.05	24.11	12.15	27
28 29	25.17 26.06	12.27 12.71	25.11 26.01	12.38 12.83	25.06 25.95	12.49 12.94	25.00 25.90	12.60 13.05	28 29
30	26.96	13.15	26.91	13.27	26.85	13.39	26.79	13.50	30
31	27.86	13.59	27.80	13.71	27.74	13.83	27.68	13.95	31`
32	28.76	14.03	28.70	14.15	28.64	14.28	28.58	14.40	32
34	29.66 30.56	14.47 14.90	29.60 30.49	14.60 15.04	29.53 30.43	14.72 15.17	29.47 30.36	14.85 15.30	33 34
35	31.46	15.34	31.39	15.48	31.32	15.62	31.25	15.75	35
36	32.36	15.78	32.29	15.92	32.22	16.06	32.15	16.20	36
37	33.26	16.22	33.18	16.36	33.11	16.51	33.04	16.65	37
38 39	34.15 35.05	16.66 17.10	34.08 34.98	16.81	34.01 34.90	16.96	33.93	17.10	38
40	35.95	17.53	35.87	17.25 17.69	35.80	17.40 17.85	34.83 35.72	17.55 18.00	39 40
41	36.85	17.97	36.77	18.13	36.69	18.29	36.61	18.45	41
42	37.75	18.41	37.67	18.58	37.59	18.74	37.51	18.90	42
43 44	38.65   39.55	18.85 19.29	38.57	19.02	38.48	19.19	38.40	19.35	43
45	40.45	19.73	39.46 40.36	19.46 19.90	39.38 40.27	19.63 20.08	39.29 40.18	19.80 20.25	44 45
46	41.34	20.17	41.26	20.35	41.17	20.53	41.08	20.70	46
47	42.24	20.60	42.15	20.79	42.06	20.97	41.97	21.15	47
48	43.14	21.04	43.05	21.23	42.96	21.42	42.86	21.60	48
49 50	44.04 44.94	21.48 21.92	43.95 44.84	21.67 22.11	43.85 44.75	21.86 22.31	43.76 44.65	22.05 22.50	49 50
ģ	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ė
Distance.	64 I	eg.	63‡ ]	Deg.	631	Deg.	631	Deg.	Distance.

Distance	26	Deg. `	261	Deg.	261	Deg.	261	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
51 52 53 54 55 56 57 58 59 60	45.84 46.74 47.64 48.53 49.43 50.33 51.23 52.13 53.03 53.93	22.36 22.80 23.23 23.67 24.11 24.55 24.99 25.43 25.86 26.30	45.74 46.64 47.53 48.43 49.33 50.22 51.12 52.02 52.92 53.81	22.56 23.00 23.44 23.88 24.33 24.77 25.21 25.65 26.09 26.54	45.64 46.54 47.43 48.33 49.22 50.12 51.01 51.91 52.80 53.70	22.76 23.20 23.65 24.09 24.54 24.99 25.43 25.88 26.33 26.77	45.54 46.43 47.33 48.22 49.11 50.01 50.90 51.79 52.69 53.58	22.96 23.41 23.86 24.31 24.76 25.21 25.66 26.11 26.56 27.01	51° 52° 53° 54° 55° 56° 57° 58° 59° 60°
61 62 63 64 65 66 67 68 69 70	54.83 55.73 56.62 57.52 58.42 59.32 60.22 61.12 62.02 62.92	26.74 27.18 27.62 28.06 28.49 28.93 29.37 29.31 30.25 30.69	54.71 55.61 56.50 57.40 58.30 59.19 60.09 60.99 61.88 62.78	26.98 27.42 27.86 28.31 28.75 29.19 29.63 30.08 30.52 30.96	54.59 55.49 56.38 57.28 58.17 59.07 59.96 60.86 61.75 62.65	27.22 27.66 28.11 28.56 29.00 29.45 29.90 30.34 30.79 31.23	54.47 55.36 56.28 57.15 58.04 58.94 59.83 60.72 61.62 62.51	27.46 27.91 28.36 28.81 29.26 29.71 30.16 30.61 31.06 31.51	61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80	63.81 64.71 65.61 66.51 67.41 68.31 69.21 70.11 71.00 71.90	31.12 31.56 32.00 32.44 32.88 33.32 33.75 34.19 34.63 35.07	63.68 64.57 65.47 66.37 67.27 68.16 69.06 69.96 70.85 71.75	\$1.40 31.84 32.29 32.73 33.17 33.61 34.06 34.50 34.94 35.38	63.54 64.44 65.33 66.23 67.12 68.01 68.91 69.80 70.70 71.59	31.68 32.13 32.57 33.02 33.46 33.91 34.36 34.80 35.25	63.40 64.29 65.19 66.08 66.97 67.87 68.76 69.65 70.55 71.44	31.96 32.41 32.86 33.31 33.76 34.21 34.66 35.11 35.56 36.01	71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89	72.80 73.70 74.60 75.50 76.40 77.30 78.20 79.09 79.99 80.89	35.51 35.95 36.38 36.82 37.26 37.70 38.14 38.58 39.01 .39.45	72.65 73.54 74.44 75.34 76.23 77.13 78.03 78.92 79.82 80.72	35.83 36.27 36.71 37.15 37.59 38.04 38.48 38.92 39.36 39.81	72.49 73.38 74.28 75.17 76.07 76.96 77.86 78.75 79.65 80.54	36.14 36.59 37.03 37.48 37.93 38.37 38.82 39.27 39.71 40.16	72.33 73.22 74.12 75.01 75.90 76.80 77.69 78.58 79.48 80.37	36.46 36.91 37.36 37.81 38.26 38.71 39.16 39.61 40.06 40.51	81 82 83 84 85 86 87 88 89 90
91 92 93 94 95 96 97 98 99 100	81.79 82.69 83.59 84.49 85.39 86.28 87.18 88.08 88.98 89.88	39.89 40.33 40.77 41.21 41.65 42.08 42.52 42.96 43.40 43.84 Lat.	81.62 82.51 83.41 84.31 85.20 86.10 87.00 87.89 88.79 89.69	40.25 40.69 41.13 41.58 42.02 42.46 42.90 43.34 43.79 44.23	81.44 82.33 83.23 84.12 85.02 85.91 86.84 87.70 88.60 89.49 Dep.	40.60 41.05 41.50 41.94 42.39 42.83 43.28 43.73 44.17 44.62 Lat.	81.26 82.15 83.05 83.94 84.83 85.73 86.62 87.51 88.40 89.30	40.96 41.41 41.86 42.31 42.76 43.21 43.66 44.11 44.56 45.01 Lat.	91 92 93 94 95 96 97 98 99 100
Distance.	64 1		634		631		631		Distance.

Distance	27	Deg.	271	Deg.	27}	Deg.	271	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
•1 2 3 4 5 6 7 8 9	0.89 1.78 2.67 3.56 4.45 5.35 6.24 7.13 8.02 8.91	0.45 0.91 1.36 1.82 2.27 2.72 3.18 3.63 4.09 4.54	0.89 1.78 2.67 3.56 4.45 5.33 6.22 7.11 8.00 8.89	0.46 0.92 1.37 1.83 2.29 2.75 3.21 3.66 4.12 4.58	0.89 1.77 2.66 3.55 4.44 5.32 6.21 7.10 7.98 8.87	0.46 0.92 1.39 1.85 2.31 2.77 3.23 3.69 4.16 4.62	0.88 1.77 2.65 3.54 4.42 5.31 6.19 7.08 7.96 8.85	0.47 0.93 1.40 1.86 2.33 2.79 3.26 3.72 4.19 4.66	1 2 3 4 5 6 7 8 9
11 12 13 14 15 16 17 18 19 20	9.80 10.69 11.58 12.47 13.37 14.26 15.15 16.04 16.93 17.82	4.99 5.45 5.90 6.36 6.81 7.26 7.72 8.17 8.63 9.08	9.78 10.67 11.56 12.45 13.34 14.22 15.11 16.00 16.89 17.78	5.04 5.49 5.95 6.41 6.87 7.33 7.78 8.24 8.70 9.16	9.76 10.64 11.53 12.42 13.31 14.19 15.08 15.97 16.85 17.74	5.08 5.54 6.00 6.46 6.93 7.39 7.85 8.31 8.77 9.23	9.73 10.62 11.50 12.39 13.27 14.16 15.04 15.93 16.81 17.70	5.12 5.59 6.05 6.52 6.98 7.45 7.92 8.38 8.85 9.31	11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30	18.71 19.60 20.49 21.38 22.28 23.17 24.06 24.95 25.84 26.73	9.53 9.99 10.44 10.90 11.35 11.80 12.26 12.71 13.17 13.62	18.67 19.56 20.45 21.34 22.23 23.11 24.00 24.89 25.78 26.67	9.62 10.07 10.53 10.99 11.45 11.90 12.36 12.82 13.28 13.74	18.63 19.51 20.40 21.29 22.18 23.06 23.95 24.84 25.72 26.61	9.70 10.16 10.62 11.08 11.54 12.01 12.47 12.93 13.39 13.85	18.58 19.47 20.35 21.24 22.12 23.01 23.89 24.78 25.66 26.55	9.78 10.24 10.71 11.17 11.64 12.11 12.57 13.04 13.50 13.97	21 22 23 24 25 26 27 28 29 30
31, 32 33, 34, 35, 36, 37, 38, 39, 40	27.62 28.51 29.40 30.29 31.19 32.08 32.97 33.86 34.75 35.64	14.07 14.53 14.98 15.44 15.89 16.34 16.30 17.25 17.71 18.16	27.56 28.45 29.34 30.23 31.12 32.00 32.89 33.78 34.67 35.56	14.19 14.65 15.11 15.57 16.03 16.48 16.94 17.40 17.86 18.31	27.50 28.38 29.27 30.16 31.05 31.93 32.82 33.71 34.59 35.48	14.31 14.78 15.24 15.70 16.16 16.62 17.08 17.55 18.01 18.47	27.43 28.32 29.20 30.09 30.97 31.86 32.74 33.63 34.51 35.40	14.43 14.90 15.37 15.83 16.30 16.76 17.23 17.69 18.16 18.62	31 32 33 34 35 36 37 38 40 40
41 42 43 44 45 46 47 48 49 50	36.53 37.42 38.31 39.20 40.10 40.99 41.88 42.77 43.66 44.55	21.79 22.25 22.70	36.45 37.34 38.23 39.12 40.01 40.89 41.78 42.67 43.56 44.45	18.77 19.23 19.69 20.15 20.60 21.06 24.52 21.98 22.44 22.89	36.37 37.25 38.14 39.03 39.92 40.80 41.69 42.58 43.46 44.35	18.93 19.39 19.86 20.32 20.78 21.24 21.70 22.16 22.63 23.09	36.28 37.17 38.05 38.94 39.82 40.71 41.59 42.48 43.36 44.25	19.09 19.56 20.02 20.49 20.95 21.42 21.88 22.35 22.82 23.28	41 42 43 44 45 46 47 48 49 50
Distance.	63 I	Lat. Deg.	Dep. 621	Deg.	Dep. 62½	Deg.	Dep.	Deg.	Distance.

Distance.	27	Deg.	271	Deg.	271	Deg.	27}	Deg.	Distance
nçe.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
51 52	45.44 46.33.	23.15 23.61	45.34 46.23	23.35 23.81	45.24 46.12	23.55 24.01	45.13 46.02	23.75 24.21	51 52
53	47.22	24.06	47.12	24.27	47.01	24.47	46.90	24.68	53
54	48.11	24.52	48.01	24.73	47.90	24.93	47.79	25.14	54
55	49.01	24.97	48.90	25.18	48.79	25.40	48.67	25.61	55
56 57	49.90 50.79	25.42 25.88	49.78 50.67	25.64 26.10	49.67	25.86 26.32	49.56	26.07 26.54	56 57
58	51.68	26.33	51.56	26.56	51.45	26.78	51.33	27.01	58
59	52.57	26.79	52.45	27.01	52.33	27.24	52.21	27.47	59
60	53.46	27.24	53.34	27.47	53.22	27.70	53, 10	27.94	60
61	54.35	27.69	54.23	27.93	54.11	28.17	53.98	28.40	61
62 63	55.24 56.13	28.15 28.60	55.12 56.01	28.39	54.99 55.88	28.63	54.87 55.75	28.87 29.33	62
64	57.02	29.06	56.90	29.30	56.77	29.55	56.64	29.80	64
<b>.6</b> 5	57, 92	29.51	57.79	29.76	57.66	30.01	57.52	30.26	65
66	58.81	29.96	58.68	30.22	58.54	30.48	58.41	30.73	66
67 68	59.70 60.59	30.42	59.56 60.45	30.68	59.43	30.94	59.29 <b>6</b> 0.18	31.20	67 68
69	61.48	30.87 31.33	61.34	31.14	60.32	31.40	61.06	31.66 32.13	69
70	62.37	31.78	62.23	32.05	62.09	32.32	61.95	32.59	70
71	63.26	32.23	63.12	32.51	62.98	32.78	62.83	- 33 - 06	71
72	64.15	32.69	64.01	32.97	63.86	33.25	63.72	33.52	72
73 74	65.04 65.93	33.14 33.60	64.00	33.42	64.75	33.71	64.60	33.99 34.46	73
75	66 83	34.05	66.68	33.88 34.34	65.64	34.17	65.49	34.92	75
76	67.72	34.50	67.	34.80	67.41	35.09	67.26	35.39	76
77	68.61	34.96	68.45	<b>8</b> 5.26	68.30	. 35.55	68.14	35.85	77
78	69.50	35.41	69.34	35.71	69.19	36.02	69.03	36.32	78
79 80	70.39 71.28	35.87 36.32	70.23 12.12	36.17 36.63	70.07	36.48 36.94	69.91 70.80	36.78 37.25	79 80
81-	72.17	36.77	72.01	37.09	71.85	37.40	71,68	37.71	81
82	73.06	37.23	72.90	37.55	١ <b>72.73</b>	37.86	72.57	38.18	82
83	73.95	37.68	73.79	38.00	73.62	38.33	73.45	38.65	83
84 85	74.84	38.14	74.68	38.46	44.51	38.79	74.34	39.11	84
86 <b>.</b>	75.74 76.63	38.59 39.04	75.57 76.46	38.92 39.38	75.40 76.28	39.26	76.22 76.11	39.58 40.04	85 86
87	77.52	39.50	77.34	39.83	77.17	40.17	76.99	40.51	87
88	78.41	39.95	78.23	40.29	78.06	40.63	77.88	40.97	88
89	79.30	40.41	79.12	40.75	78.94	41.10	78.76	41.44	
90	80.19	40.86	80.01	·41·21	79.83	41.56	79.65	41.91	90
91	81.08	41.31	80.90	41.67	80.72	42.02	80.53	42.37	91
92	81.97 82.86	41.77	81.79 82.68	42.12 42.58	87.60 82.49	42.48 42.94	81,42 82.30	42.84 43.30	92
94	83.75	42.68	83.57	43.04	83.38	42.94	83:19	43.77	94
95	84.65	43.13	84.46	43.50	84.27	48.87	84.07	44.23	95
96	85.54	43.58	85.35	43.96	85.15	44.33	84.96	44.70	96
97	86.43	44.04	86.23	44.41	86.04	44.79	85.84	45.16	97
98	87.32 88.21	44.49	87.12 88.01	44.87	86.93 87.81	45.25	86.73	45.63	98 99
100	89.10	44.95 45.40	88.90	45.33 45.70	88.70	45.71	87.61 88.50	46.10 46.56	100
ė	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	9
Distance	63 D	eg.	621	Deg.	62 <u>}</u> ]	Deg.	624 ]	Deg.	Distance.

			•						
Distance.	ļ	Deg.	Ĭ	Deg.	281		281		Distance
, i	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ě
1 2 3 4 5 6 7 8 9	0.88 1.77 2.65 3.53 4.41 5.30 6.18 7.06 7.95 8.83	0.47 0.94 1.41 1.88 2.35 2.82 3.29 3.76 4.23 4.69	0.88 1.76 2.64 3.53 4.40 5.29 6.17 7.05 7.93	0.47. 0.95 1.42 1.89 2.37 2.84 3.31 3.79 4.26 4.73	0.88 1.76 2.64 3.52 4.39 5.27 6.15 7.03 7.91 8.79	0.48 0.95 1.43 1.91 2.39 2.86 3.34 3.82 4.29 4.77	0.88 1.75 2.63 3.51 4.38 5.26 6.14 7.01 7.89 8.77	0.48 0.96 1.44 1.92 2.40 2.89 3.37 3.85 4.33 4.81	1 2 3 4 5 6 7 8 9
11 12 13 14 15 16 17 18 19 20	9.71 10.60 11.48 12.36 13.24 14.13 15.01 15.89 16.78 17.66	5.16 5.63 6.10 6.57 7.04 7.51 7.98 8.92 9.39	9.69 10.57 11.45 12.33 13.21 14.09 14.98 15.86 16.74 17.62	5.21 5.68 6.15 6.63 7.10 7.57 8.05 8.52 8.99 9.47	9.67 10.55 11.42 12.30 13.18 14.06 14.94 15.82 16.70 17.58	5.25 5.73 6.20 6.68 7.16 7.63 8.11 8.59 9.07 9.54	9.64 10.52 11.40 12.27 13.15 14.03 14.90 15.78 16.66 17.53	5.29 5.77 6.25 6.73 7.21 7.70 8.18 8.66 9.14 9.62	11 12 13 14 15 16 17 48 19 20
21 22 23 24 25 26 27 28 29	18.54 19.42 20.31 21.19 22.07 22.96 23.84 24.72 25.61 26.49	9.86 10.33 10.80 11.27 11.74 12.21 12.68 13.15 13.61 14.08	18.50 19.38 20.26 21.14 22.02 22.90 23.78 24.66 25.55 26.43	9.94 10.41 10.89 11.36 11.83 12.31 12.78 13.25 13.73 14.20	18.46 19.33 20.21 21.09 21.97 22.85 23.73 24.61 25.49 26.36	10.02 10.50 10.97 11.45 11.93 12.88 13.36 13.84 14.47	18.41 19.29 20.16 21.04 21.92 22.79 23.67 24.55 25.43 26.30	10.10 10.58 11.06 11.54 12.02 12.51 12.99 13.47 13.95 14.43	21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40	27.37 28.25 29.14 30.02 30.90 31.79 39.67 33.55 34.43 35.32	14.55 15.02 15.49 15.96 16.43 16.90 17.37 17.84 18.31 18.78	27.31 28.19 29.07 29.95 ·30.83 5.71 32.59 33.47 34.35 35.24	14.67 15.15.15.15.62 16.09 16.57 17.04 17.51 17.99 18.46 18.93	27.24 28.12 29.00 29.88 30.76 31.64 32.52 33.39 34.27 35.15.	14.79 15.27 15.75 16.22 16.70 17.18 17.65 18.13 18.61 19.09	27.18 28.06 28.93 29.81 30.69 31.56. 32.44 33.32 34.19 35.07	14.91 15.39 15.87 16.35 16.83 17.32 17.80 18.28 18.76	31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50	36.20 37.08 37.97 38.85 39.73 40.62 41.50 42.38 43.26 44.15	19.25 .19.72 20 <b>9</b> 19 20.66 21.13 21.60 22.07 22.53 23.00 23.47 Lat.	36.12 37.00 37.88 38.76 39.64 40.52 41.40 42.28 43.16 44.04	19.41 19.88 20.35 20.83 21.30 21.77 22.25 22.72 23.19 23.67	36.03 36.91 37.79 38.67 39.55 40.43 41.30 42.18 43.06 43.94	19.56 20.04 20.52 20.99 21.47 21.95 22.43 22.90 23.38 23.86	35.95 36.82 37.70 38.58 39.45 40.33 41.21 42.08 42.96 43.84	15.72 20.20 20.68 21.16 21.64 22.13 22.61 23.09 23.67 24.05	41 42 43 44 45 46 47 48 49 50
Distance.	Dep. 62 1	Deg.	Dep. 613	Deg.	Dep.	Deg.	Dep.	Deg.	.Distance.

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Distance	28 1	Deg.	281	Deg.	281	Deg.	283	Deg.	Distân
) E			<u> </u>						F
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
51	45.03	23.94	44.93	24.14	44.82	24.34	44.71	24.53	51
51 52	45.91		45.81	24.61		24.81	45.59	25.01	52
53	46.80	24.88	46.69	25.09	46 58	25.29	46.47	25.49	53
54	47.68	25.35	47.57	25.56	47.46	25.77	47.34	25.97	54
55	48.56	25.82	48.45	26.03	48.33	26.24	48.22	26.45	55
56	49.45	≥26.29	49.33	26.51	49.21	26.72	49.10	26.94	56
57	50.33	26.76	50.21	26.98	50.09	27.20	49.97	27.42	57
58	51.21 52.09	27.23 27.70	51.09	27.45 27.93	50.97	27.68 28.15	50.85	27.90 28.38	58
59 60	52.98	28.17	51.97 52.85	28.40	51.85 52.73	28.63	51.73 52.60	28.86	59 60
			ļ				52.00	ļ	-00
61	53.86	28.64	53.73	28.87	53.61	29.11	53.48	29.34	61
62	54.74	29.11	54.62	29.35	54.49	29.58	54.36	29.82	62
63	55.63	29.58	55.50	29.82	55.37	30.06	55.23	30.20	63
64	56.51	30.05	56.38	30.29	56.24	30.54	56.11	30.78	64
65	57.39	30.52	57.26	30.77	57.12	31.02	56.99	31.26	65
66	58.27	30.99	58.14	31.24	58.00	31.49	57.86	31.75	66
67	59.16	31.	59.02	31.71	58.88	31.97	58.74	32.23	67 68
68 69	60.04 60.92	31.92 32.39	59.90 60.78	32.19 32.66	59.76 60.64	32.45 32.92	59.62 60.49	32.71 33.19	69
70	61.81	32.39 32.86	61.66	33.13	61.52	33.40	61.37		70
	ļ		ļ					<u> </u>	-
71	.62.69	33.33	62.54	33.61	62.40	33.88	62.25	34.15	71.
72	63.57	33.80	63.42	34.08	63.27	34.36	63.12	34.63	72
73	64.46	34.27	64.30	34.55	64.15	34.83	64.00	35.	73
74.	65.34	34.74	65.19	35.03	65.03	35.31	64.88	35.59	74
75 76	66.22 67.10	35.21 35.68	66.95	35.50 35.97	65.91 66.79	35.79 36.26	65.75	36.07	75 76
77	67.99	36.15	67.83	36.45	67.67	36.74	67.51	36.56 37.04	77
78	68.87	36.62	68.71	36.92	68.55	37.22	68.38	37.52	78
79	69.75	37.09	69.59	37.39	69.43	37.70	69.26	38.00	79
80	70.64	37.56	70.47	37.87	70.31	38.17	70.14	38.48	80
81	71.52	38.03	71.35	38.34	71.18	38.65	71.01	38.96	81
82	72.40	38.50	72.23	38.81	72.06	39.13	71.89	39.44	82
83	73.28	38.97	73.11	39.29	72.94	39.60	72.77	39.92	83
84	74.17	39.44	73.99	39.76	73.82	40.08	73.64	40.40	84
85	75.05	39.91	74.88	40.23	74.70	40.56.	74.52	46.88	85
86	75.93	40.37	75.76	40.71	75.58	41.04	75.40	41.36	86
87	76.82	40.84	76.64	41.18	76.46	41.51	76.28	41.85	87
88	77.70	41.31	77.52	41, 65	77.34	41.99	77.15	42.33	88
89	78.58	41.78	78.40	42.13	78.21	42.47	78.03	42.81	89
90	79.47	42.25	79.28	42.60	79,09	42.94	78.91	43.29	90
91	80.35	42.72	80.16	43.07	79.97	43.42	79.78	43.77	91
92	81.23	43.19	81.04	43.55	80.85	43.90	80.66	44.25	92
93	82.11	43.66	81.92	44.02	81.73	44.38	81.54	44:73	93
94	83.00	44.13	82.80	44.49	82.61	44.85	82.41	45.21	94
95	83.88	44.60	83.68	44.97	83.49	45.33	83.29	45.69	95
96	84.76	45.07	84.57	45.44	84.37	45.81	84.17	46.17	96
97	85.65	45.54	85.45	45.91	85:25	46.28	85.04	46.66	97
98	86.53	46:01	86.33	46.39	86.12	46.76	85.92	47.14	98
99	87.41	46.48	87.21	46.86	87.00	47.24	86.80	47.62	99
100	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	100
Distance.	Dep.	. Łat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Distance.
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Ë	62	Deg.	617	Deg.	61 <del>1</del>	Deg.	614	Deg.	اقا
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Distance.	<b> </b>	Deg.	<b></b>	Deg.	<b> </b>	Deg.		Deg.	Distance
i,	Lat.	Dep.	Lat.	Dep.	Let.	Dep.	Lat.	Dep.	
1 2 3	0.87 1.75 2.62	0.48 0.97 1.45	0v87 1.74 2.62	0.49 0.98 1.47	0.87 1.74 2.61	0.49 0.98 1.48	2.60	0.50 0.99 1.49	1 2 3
4	3.50	1.94	3.49	1.95	3.48	1.97	3.47		4
5	4.37	2.42	4.36	2.44	4.35	2.46	4.34		5
6	5.25	2.91	5.23	2.93	5.22	2.95	5.214		6
7	6.12	3.39	6.11	3.42	6.09	3.45	6.08	3.47	7
8	7.00	3.88	6.98	3.91	6.96	3.94	6,95	3.97	8
9	7.87	4.36	7.85	4.40	7.83	4.43	7.81	4.47	9
10	8.75	4-85	8.72	4.89	8.70	4.92	8.68	4.96	10
11	9.62	5.33	9.60	5.37	9.57	5.42	9.55	5.46	11
12	10.50	5.82	10.47	5.86	10.44	5.91	10.42	5.95	12
13	11.37	6.30	11.34	6.35	11.31	6.40	11.29	6.45	13
14	12.24	6.79	12.21	6.84	12.18	6.89	12.15	6.95	14
15	13.12	7.27	13.09	7.33	13.06	7.39	13.02	7.44	15
16	13.99	7.76	13.96	7.82	13.93	7.88	13.89	7.94	16
· 17 .	14.87	8.24	14.83	8.31	14.80	8.37	15.63	8:44	17
18	15.74	8.73	15.70	8.80	15.67	8.86		8.93	18
19	16.62	9.21	16.58	9.28	16.54	9.36	16.50	9.43	19
20	17.49	9.70	17.45	9.77	17.41	9.85	17.36		20
21 22 23	18.37 19.24 20.12	10.18 10.67	18.32 19.19 20.07	10.26 10.75 11.24	18.28 19.15 20.02	10.34 10.83 11.33	18.23 19.10 19.97	10.42 10.92. 11.41	21 22 23
24	20.99	11. <b>64</b>	20.94	11.73	20.89	11.82	20.84	11.91	24
25	21.87	12.12	21.81	12.22	21.76	12.31	21.70	12.41	25
26	22.74	12.60	22.68	12.70	22.63	12.80	22.57	12.90	26
27	23.61	13.09	23.56	13.19	23.50	13.30	23.44	13.40	27
28	24.49	13.57	24.43	13.68	24.37	13.79	24.31	13.89	28
29	25.36	14.06	25.30	14.17	25.24	.14.28	25.18	14.39	29
30	26. <b>2</b> 4	14.54	26.17	14.66	26.11	14.77	26.05	14.89	30
31 32	27.11	15.03 15.51	27.05 27.92	15.15 15.64	26.98 27.85	15.27 15.76	26.91 27.78	15.38 15.88	31
33	28.86	16.00	28.79	16.12	28.72	16.25	28.65	16.38	33
34	29.74	16.48	29.66	16.61	29.59	16.74	29.52	16.87	34
35	30.61	16.97	30.54	•17.10	30.46	17.23	30.39	17.37	35
36	31.49	17.45	31.41	17.59	31.33	17.73	31.26	17.86	36
•37	32.36	17.94	32.28	18.08	32.20	18.22	32.12	18.36	37
38	33.24	18.42	33.15	18.57	33.07	18.71	32.99	18.86	38
39	34.11	18.91	34.03	19.66	33.94	19.20	33.86	19.35	39
<b>40</b>	34.98	19.39	34.20	19,54	34.81	19.70	34.73	19.85	40
41	35.86	19.88	35.77	20.03	35.68	20.19	35.60	20.34	41
42	36.73	20.36	36.64	20.52	36.55	20.68	36.46	20.84	42
43	37.61	20.85	37.52	21.01	37.43	21.17	37.33	21.34	43
44	38.48	21.33	38.39	21.50	38.30	21.67	38.20	21.83	44 ·
45	39.36	21.82	39.26	21.99	39.17	22.16	39.07	22.33	45
46	40.23	22.30	40.13	22.48	40.04	22.65	39.94	22.83	46
47	41.11	22.79	41.01	22.97	40.91	23.14	40.81	23.32	47
48	41.98	23.27	41.88	23.45	41.78	23.63	41.67	23.82	48
49	42.86	23.76	42.75	23.94	42.65	24.13	42.54	24.31	49
50	43.73	24.24	43.62	24.43	43.52	24.62	43.41	24.81	50.
nce.	Dep.	Lat,	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	61 I	Deg.	604	Deg.	601	Deg.	601	Deg.	Distance.

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	Distance.	æ9 I	eg.	291 1	Deg,	29} I	eg.	29‡ I	eg.	Distance.
ı	œ.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	•Dep.	ce.
ı	51	44.61	24.73	44.50	24.92	44.39	25.	44.28	25.31 25.80	51 52
ı	52 53	45,48 46.35	25.21 25.69	45.37 46.24	25.41 25.90	45.26 46.13	25.61 26.10	45.15 46.01	26.30	53
l	54	47.23	26.18	47.11	26.39	47.00	26.59	46.88	26.80	54
H	55	48.10	26.66	47.99	26.87	47.87	27.08	47.75	27.29	55
ı	56	48.98	27.15	48.86	<b>27</b> .36	48.74	27.58	48.62	27.79	56
ı	57	49.85	27.63	49.73	27.85	49.61	28.07	49.49	28.28	57
ı	58		28.12	50.60	28.34	50.48	.28.56	50.36	28.78	58'
I	59 60	51.60 52.48	28.60 29.09	51.48 52.35	28.83 29.32	51.35 52.22	29.05 29.55	51.22 52.09	29.28 29.77	59 <b>6</b> 0
ı	·61	53.35	29.57	53.22	· <b>29</b> .81	53.09	30.04	52.96	30.27	61
ı	62	54.23	30.06	54.09	30.29	53.96	30.53	53.83	30,77	62
	63	55.10	30.54	54.97	30.78	54.83	31.02	54.70	31.26	63
ı	64	55.98	31.03	55.84	31.27	55.70	31.52	55.56	31.76	64
ı	65	56.85	31.51	56.71	31.76	56.57	32.01 32.50	56.43 57.30	32.25 32.75	65 66
۱	66 67	57.72 58.60	32.00 32.48	58.46	32.25 32.74	57.44 58.31	32.50	58.471		67
ı	8	59.47	32.48	59-33	33.23	59.18	33.48	59.04	33.74	68
ı	69	60.35	33.45	60.20	33.71	<b>≠60.05</b>	33.98	59.91	34.24	69
۱	•70	61.22	33.94	61.07	34.20	60.92	34.47	60.77	34.74	70
I	71	62.10	34.42	61.95	34.69	61.80	34.96	61.64	35.23	71
ı	72	62.97	34.91	62.82	35.18	62.67	35.45	62.51 63:38	35.73 36.22	72 73
l	73 74	63,85 64.72	35.39 35.88	63.69 64.56	35.67 36.16	63.54	35.95 36.44	64.25	36.72	74
I	75	65.60	36.36	65 44	36.65	65.28	36.93	65.11	37.22	75
ı	76	66.47	36.85	66.31	37.14	66.15	37.42	65.98	37.71	76
ı	77	67.35	37.33	67.18	3762	67.02	37.92	66.85	38.21	77
ı	78 .	68.22	37.82	68.05	38,11	67.89	38.41	67.72	38.70	78
ı	79	69.09	38.30	68.93	38.60	68.76	38.90	68.59	39.20	79
ı	80	69:97	38.78	69.80	39.09	69.63	39.30	69.46	39.70	80
ı	81	70.84	39.27	70.67	39.58	70.50	39.89	70.32	40.19	81
ı	82	71.72	39.75	71.54	40.07	71.37	40.38	71,19	40.69	82
i	83	72.59	40.24	72.42	40.56	72.24	40.87	72.06	41.19	83, 84
۱	84 85	73.47 74.34	40.72 41.21	73.29 74.16	41.04	73.11 73.98	41.36	72.93 73.89	42.18	85
ı	86	75.22	41.69	75.03	42.02	74.85	42.35	74.67	42.67	86
ı	87	76.09	42.18	75.91	42.51	75.72	42.84	75.53	43.17	87
I	88	76.97	42.66	76.78	43.00	76.59	43.33	76.40	43.67	88
	89	77.84	43.15	77_65	43.49	77.46	43.83	77.27	44.16	89
	90	78.72	43.63	78-52	43.98	78.33	44.32	78.14	44.66	90
ı	91	79.59	. 44. 12	79.40	44.46	79.20	44.81	79.01	45.16	91
ı	92	80.46	44.60	80.27	44.95	80.07	45.30	79.87	45.65	92
ı	93	81.34	45.09	81.14	45.44	*80.94	45.80	80.74	46.15	93
	94	82.21	45.57	82.01	45.93	81.81	46.29	81.61	46.64	94 95
	95	83.09	46.06	82.89	46.42	82.68 83.55	46.78	82.48 83.35	47.14 47,64	96
	96 97	83.96 84.84	46.54 47.03	83.76 84.63*	46.91 47.404		47.77	84.22	48.13	97
ı	97 98	84.84 85.71	4751	85.50	47.88	85.29	48.26	85.08	48.63	98
ı	99	86.59	48.00	86.38	48.37	86.17	48.75	85.95	49.13	99
I	100	87.46	48.48	87.25.	48.86	87.04	49.24	86.82	49.62	100
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Distance	30 ]	Deg.	301	Deg.	301	Deg!	301	Deg.	Distance.
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ıce.
1 2	0.87 1.73	0.50 1.00	●0.86 1.73	0.50 1.01	0.86 1.72	0.51 1.02	0.86 1.72	0.51 1.02	1.
3	2.60	1.50	2.59	1.51	2.58	1.52	2.58	1.53	3
4	3.46	2.00₁	3.46	2.02	3.45	2.03	3.44	2.05	4
5	4.33	2.50	4.32	2.52	4.31	2.54	4.30	2.56	5
6	5.20	3.00	5.18	3.02	5.17.	3.05	5-16	3.07	5 6
7	6.06	3.50	6.05	.3.53	6.03	3.55	6.02	3.58	7
8	6.93	4.00	6.91	4.03	6.89	4.06	6.88	4.09	8
9	7.79	4.50	7.77	4.53	7.75	4.57	7.73	4.60	9
10	8.66	5.00	8.64	5.04	8.62	5.08	8.59	5.11	10
11	9.53	5.50	9.50	5.54	9.48	5.58	9.45	5.62	11
12	10.39	6.00	10.37	6.05	10.34	6.09	10.31	6.14	12
13	11.26	6.50	11.23	6.55	11.20	6.60	11.17	6.65	13
14	12.12	7.00	12.09	7.05	12.06	7.11	12.03	7.16	14
15 16	12.99 13.86	7.50 8.00	12.96 13.82	7.56 8.06	12.92 13.79	7.61 8,12	12.89 13.75	. 7.67 8.18	15 16
17	14.72	8.50	14.69	8.56	14.65	8.63	14.61	8.69	17
18	15.59	9.00	15.55	9.07	15.51	9.14	15.47	9.20	18
19	16.45	9.50	16.41	9.57	16.37	9.64	16.33	9.71	19
20	17.32	10.00	17.28	10.08	17.23	10.15	17.19	10.23	20
21	13.19	10.50	18.14	10.58	18.09	10.66	18.05	10.74	21
22	19.05	11.00	19.00	11.08	18.96	11.17	18.91	11.25	22
23	19.92	11.50	19.87	11.59	19.82	11.67	19.77	11.76	23
24	20.78	12.00	20.73	12.09	20.68	12.18	20.63	12.27	24
25	21.65	12.50	21.60	12.59	21.54	19.69	21.49	12.78	25
26	22.52	13.00	22.46	13.10	22.40	13.20	22.34	13.29	26
27	23.38	13.50	23.32	13.60	23.26	13.70	23.20	13.80 14.32	27 28
28	24.25 25.11	14.00 14.50	24.19 25.05	14.11 14.61	24.13 24.99	14.21 14.72	24.00	14.83	29
<b>29</b> 30	25.11	15.00	25.92	15.11	25.85	15.23	25.78	15.34	30
<b>!</b>							ļ	ļ	
31	26.85	15.50	26.78	15.62	26.71	15.73	26.64	15.85	31
32	27.71 28.58	16.00	27.64	16.12 16.62	27.57 28.43	16.24 16.75	<b>27</b> .50 <b>28</b> .36	16.36 16.87,	32 33
33 34	29.44	16.50 17.00	28.51 29.37	17.13	29.30	17.26	29.22	17.38	34
35	30.31	17.50	30.23	17.63	30.16	17.76	30.08	17.90	35
36	31.18	18.00	31.10	18.14	31.02	18.27	30.94	18.41	36
37	32.04	18.50	31.96	18.64	31.88	18.78	31.80	18.92	37
38	32.91	19.00	32.83	19.14	32.74	19.29	32.66	19.43	38
39	33.77	19.50	33.69	19.65	33.60	19.79	33.52	19.94	39
40	34.64	20.00	34.55	20.15	34.47	2.30	34.38	20.45	40
41	35.51	20.50	35.42	20.65	35.33	20.81	35.24	20.96	41
42	36.37	21.00	36.28	21.16	36.19	21.32	36.10	21.47	42
43	37.24	21.50	37.14	21.66	37.06	21.82	36.95	£1.99	43
44	38.11	22.00	38.01	22.17	37.91	22.33	37.81 .	22.50	44
45	38.97	22.50	38.87	22.67	38.77	22.84	38.67	23.01	45
46	39.84	23,00	39.74	23.17	39.63	23.35	39.53	23.52	46
47	40.70	23.50	40.60	23.68	40.50	23.85	40.39	24.03	47
48	41.57	24.00	41.46	24.18	41.36	94:36	41.25	24,54	48
49	42.44	24.50	42.33	24.68	42.22	24.87	42.11	25.05	49
50	43.30	25.00	43.19	25.19	43.08	25.38	42.97	25.56	50
Distance.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Distance.
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ã	60 1	eg.	274	Deg.	284	Deg.	294	Deg.	ñ
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Distance	30 1	Deg.	301	Deg.	30½ I	Deg.	30‡ I	)eg.	Distance.
·ce `	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
51 50	44.17	25.50	44.06	25.69 26.20	43.94 44.80	25.88	43.88 44.69	26.08	51 52
52 53	45.03 45.90	<b>26.00 26.50</b>	44.92 45.78	26.70	45.67	26.39 26.90	45.55	26.59 27.10	53
54	46.77	27.00	46.65	27.20	46.53	27.41	46.41	27.61	54
55	47.63	27.50	47.51	27.71	47.39	27.91	47.27	28.12	55
56 57	48.50 49.36	28.00	48.37	28.21 28.72	48.25	28.42 28.93	48.13, 48.99	28.63 29.14	56 57
58	50.23	29.00	50.10	29.22	49.97	29.44	49.85	29.65	58
.59	51.10	29.50	50.97	29.72	50.84	29.94	50.70	30.17	59
60	51.96	30.00	51.83	30.28	51.70	30.45	51.56	30.68	60
61	52.83	30.50	52.69	* 30.73	52.56	30.96	52.42	31.79	61
62 63	53.69 54.56	31.00 31.50	53.56 54.42	31.74	53.42 54.28	31.47 31.97	53 <b>-2</b> 8 54.14	31.70 32.21	62
64	55:43	32.00	55.29	32.24	55.14	32.48	55.00	32.72	64
65	56.29	32.50	56.15	32.75	56.01	32.99	55.86	33.23	65
66	57.16	33.00	57.01	33.25	56.87	33.50	56.72	33.75	66
67 68	58.02 58.89	33.50 34.00	57.88 58.74	33.75 34.26	57.73	34.01 34.51	57.58 58.44	34.26	67 68
69	59.76	34.50	59.60	34.76	59.45	35.02	59.30	35.28	69
70	60.62	35.00	60.47	35.26	60.31	35.53	60.16	35.79	70
71	61.49	35.50	61.33	35.77	61.18	36.04	61.02	36.30	71
72	62.35	36.00	62.20	36:27	62.04	36.54	61.88	36.81	72
73 74	63.22 64.09	36.50 37.00	63.06	36.78 37.28	62.76	37.05 37.56	62.74 63.60	37.32	73 74
75	64.95	37.50	64.79	37.28	64.62	38.07	64.46	38.35	75
76	65.82	38,00	65.65	38.29	65.48	'38.57	65.34	38.86	76
77	66:68	38.50	66.52	38.79	66.35	39.08	66.17	39.37	.77
78 79	67.55 68.42	39.00 39.50	67.38 68.24	39.2 <b>9</b>	67.21	39.59 40.10	67.03 67.89	39.88 40.39	78 79
80	69.28	₩.00	69.11	40.30	68.93	40.60	68.75	40.90	80
81	70.15	40.50	69.97	40.81	69.79	41.11	69.61	41.41	81
82	71.01	41.00	70.83	41.31	70.65	41.62	70.47	41.93	82
83 84	71.88 72.75	41.50	71.70 72.56	41.81 42.32	71.52 72.38	42.13 42.63	71.33 72.19	42.44-	83. 84
85	73.61	42.00 42.50	73.43	42.82	73.24	43.14	73.05	43.46	85
86	74.48	43.00	74.29	43.32	74.40	43.65	73.91	43.97	86
87	75.34	43.50	75.15	43.83	74.96	44.16	74.77	44.48	.87
88 89	76.21 77.08	44.00	76.02 76.88	44.33	75.82 76.68	44.66 45.17	75.63 76.49	44.99	*89
90	77.94	45.00	77.75	45.34	77.55	45.68	77.35	46.02	90
91.	78.81	45.50	78,61	45.84	78.41	46.19	78.21	46.53	91
92	79.67	46.00	79.47	46.35	79.27	46.69	79.07	47.04	92
93 94	80.54 81.41	46.50 47.00	80.34 81#20	46.85 47.35	80.13	47.20 47.71	79.92	47.55	93 94
95	82.27	47.50	82.06	47.86	81.85	48.22	80.78 81.64	48.06 48.57	95
96	83.14	48.00	82.93	48.36	82.72	48.72	82.50	49.08	96
97 98	84.00	48.50	83.79	48.87	83.58	49.23	83.36	49.60	97
99	84.87 85.74	49.00 49.50	84.66 85.52	49.37 49.87	84.44 85.30	49.74 50.25	84.22 85.08	50.11 50.62	98 99
100	86.60	50.00	86.38	50 -38	86.16	50.75	85.94	51.13	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep	Lat.	ace.
Distance	60 <sub>.</sub> E	Oeg.	59∄	Deg.	59 <u>1</u>	Deg.	594	Deg.	Distance.

o			011	D.	911		013		D
)ista	31	Deg.	314	Deg.	311	Deg.	314	Deg.	Distance.
Distance.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	DCe.
1	0.86	0.51	0.85	0.52	0.85	0.52	0.85	0.53	1
2	1.71	1.03	1.71 2.56	1.04	1.71 2.56	1.04	1.70 2.5	1.05 1.58	2 3
3 4	2.57 3.43	2.06	3.42	2.08	3.41	2.09	3.40	2.10	4
5	4.29	2.58	4.27	2.59	4.26	2.61	4.25	2.63	-5
6 7.	5.14 6.00	3.09 3.61	5.13 5.98	3.11 3.63	5.12 5.97	3.13 3,66	5.10 5.55	3.16 3.68	6.
8	6.86	4.12	6.84	4.15	.6.82	4.18	6.80	4.21	8
9	7.71	4:64	7.69	4.67	7.67	4.70	7.65	4.74	9
10	8.57	5.15	8.55	5.19	8.53	5.22	8.50	5.26	10
11 12	9.43 10.29	5.67 6.18	9.40 10.26	5.71 6.23	9.38 10.23	. 5. <b>7</b> 5 6.27	9.35	5.79 6.31	11
13	11.14	6.70	11.11	6.74	11.08	6.79	11.05	6.84	13
14	12.00	7.21	11.97	7.26	11.94	7.31	11.90	7.37	14
15 16	12.86 13.71	7.73 8.24	12.82	7.78 8.30	12.79 13.64	7.84 8.36	12.76 13.61	7.89 8.42	15 16
17	14.57	8.76	14.53	8.82	14.49	8.88	14.46	8.95	17
18	15.43	9.27	15.39	9.34	15.35	9.40	15.31	9.47	18
19 <b>20</b>	16.29 17.14	9.79 10.30	16.24 17.10	9.86 10.38	16.20 17.05	9.93 10.45	16.16 17.01	10.00 10.52	19 20
21	18.00	10.82	17.95	10.89	17.91	10.97	17.86	11.05	21
22 23	18.86 19.71	11.33 11.85	18.81 19.66	11.41 11.93	18.76 19.61	11.49 12.02	18.71 19.56	11.58 12.10	22 23
24	20.57	12.36	20.52	12.45	20.46	12.54	20.41	12.63	24
25	21.43	12.88	21.37	12.97	21:32	13.06	21.26	13.16	25
26 . 27 .	22.29 23.14	3.39 13.91	22.23 23.08	13.49 14.01	22.17 23.02	13.58 14.11	22.11 22.96	13.68 14.21	26 27
28	24.00	14.42	23.94	14.53	23.87	14.63	23.81	14.73	28
29	24.86	14.94	24.79	15.04	24.73	15.15	24.66	15.26	29 30
30	25.71	15.45	25.65	15.56	25.58	15.67	25.51	15.79	
31 32	26.57 27.43	15.97 16.48	26.50 27.36	16.08 16.60	26.43 27.28	16.20 16.72	26.36 27.21	16.31 16.84	31 32
.33	28.29	17.00	28.21	17.12	28.14	17.24	28.06	17.37	33
34	29.14	17.51	29.07	17.64	28.99	17.76	28-91	17.89	34
35 36	30.00 30.86	18.03 18.54	29.92 30.78	18.16 18.68	29.84 30.70	18.29 18.81	29.76 30.61	18.42 18.94	35 36
37	31.72	19.06	31.63	19.19	31.55	19.33	31.46	19.47	67
38	32.57	19.57	32.49	19.71	32.40	19.85	32.31	20.00	38 39
39 40	33.43 34:29	20.09 20.60	33.34 34.20	20.23 20.75	33.25 84.11	20.38 20.90	33.16 34.01	20.52 21.05	40
41	35.14	21.12	35.05	21.27	34.96	21.42	34.86	21.57	41
42	36.00	21.63	35.91	21.79	35.81	21.94	35.71	22.10	42
43	36.86	22.15	36.76	22.31	36.66	22.47	36.57	22.63 23.15	43 44
44 45	37.72 38.57	22.66 23.18	37.62 38.47	22.83 23.34	37.523 38.37	22.99 23.51	37.42 38.27	23.15	45
46	39.43	23.69	39.33	23.86	39.22	24.03	39.12	24.21	46
47	40.29	24.21	40.18	24.38	40.07	24.56	39.97	24.73	47 48
48 49	41.14	24.72 25.24	41.04	24.90 25.42	40.93	25.08 25.60	40.82	25.26 25.78	49
.50	42.86	25.75	42.75	25.94	42.63	26.12	42.52	26.31	50
nce.	Dep.	'Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	59 1	Deg.	583	Deg.	581	Deg.	58 <del>1</del>	Deg.	Distance.

		4	``.						
Distance	31	Deg.	311	Deg.	311	Deg.	31‡	Dog.	Distance
8	Lat	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
51	43.72	26.27	43.60	26.46	43.48	26.65	43.37	26.84	51
52	44.57	26.78	44.46	26.98	44.34	27.17	44.22	27.36	52
53	45.43	27.30	45.31	27.49	45.19	27.69	45.07	27.89	53
54 55	46.29 47.14	27.81 28.33	46.17	28.01 28.53	46.04	28.21 28.74	45.92	28.42 28.94	54 55
56	48.00	28.84	47.88	29.05	47.75	29.26	47.62	29.47	56
57	48.86	29.36	48.73	29.57	48.60	29.78	48.47	29.99	57
58 59	49.72 50.57	29.87 30.39	49.58 50.44	30.09 30.61	49.45 50.31	30.30 430.83	49.32 50.17	30.52	58 59
60	51.43	30.90	51.29	31.13	51.16	31.35	51.02	31.57	60
61	52.29	31.42	52.15	31.65	52.01	31.87	51.87	32.10	61
62 63	53.14 54.00	31.93 32.45	53.00 53.86	32.16 32.68	52.86 53:72	32.39	52.72 53.57	32.63 33.15	62 63
64	54.86	32.96	54.71	33.20	54.57	33:44	54.42	33.68	64
65	55.72	33.48	55.57	33.72	55.42	33.96	55.27	34.20	65 66
66 67	56.57 57.43	33.99 34.51	56.42 57.28	34.24	56.27 57.13	34.48	56.12 56.98	34.73 35.96	67
68	58.29	35.02	58.13	35.28	57.98	35.53	57.82	35.78	68
69 70	59.14 60.00	35.54	58.99	35.80 36.31	58.83	36.05	58.67	36.31	69 70
		36.05	59.84		59.68	36.57	.59.52	36.83	-
71 72	60.86 61.72	36.57 37.08	60.70 61.58	36.83 37.35	60.54 61.39	37.10 37.62	60.37 61.23	37.36 37.89	71 72
73	162.57	37.60	62.41	37.87	62.24	38.14	62.08	38.41	73
74	63.43	38.11	63.26	38.39	63.10	38.66	62.93	38.94	74
75 76	64,29 65.14	38.63 39.14	64.12 64.97	38.91	63.95 64.80	39.19 39.71	63.78	39.47	75 76
77	66,00	39.66	65.83	39.95	65.65	40.23	65.48	40.52	77
78	66.86	40.17	66.68	40.46	66.51	40.75	66.33	41.04	78
79 80	67.72 68.57	40.69 41.20	67.54 68.39	40.98 41.50	67.36 68.21	41.28 41.80	67.18 68.03	41.57 42.10	79 80
81	69.43	41.72	69.25	42.02	69.06	42.32	68.88	42.62	81
82	70.29	42.23	70.1Q	42.54	69.92	42.84	69.73	43.15	82
83 84	71.14 72.00	42.75 \$3.26	70.96 71.81	43.06 43.58	70.77 71.62	43.37	70.58 71.43	43.68 44.20	83 84
85	72.86	43.78	72.67	44.10	72.47	44.41	72.28	44.73	85
86	73.72	44.29	73.52	44.61	73.33	44.93	73.13	45.25	86
87 88	74.57 75.43	44.81 45.32	74.38 75.23	45.13 45.65	74.18 75.03	45.46 45.98	73.98 74.83	45.78 46.31	87
89	76.29	45.84	76.09	46.17	75.88	46.50	75.68	46.83	89
90	77.15	46.35	76.94	46.69	76.74	47.02	.53	47.36	90
91	78.00	46.87	77.80	47.21	77.59	47.55	77.38	47.89	91
92 93	78.86 79.72	47.38	78.65	47.73	78.44	48.07 48.59	78.23 79.08	48.41 48.94	92
94	80.57	47.90 48.41	79.51 80.36	48.25 48.76	79.30 80.15	49.11	79.08	48.94	94
95	81.43	48.93	81.22	49.28	81.00	49.64	80.78	49.99	95
96 97	82.29	49.44 49.96	82.07	49.80	81.85	50.16 50.66	81.63	50.52	96 97
98	83.15 84.00	50.47	82.93 83.78	50.84	82.71 83.56	51.20	82.48	51.04 51.57	98
99	84.86	50.99	84.64	51.36	84.41	51.73	84.18	52.10	99
100	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	100
Distance.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Distance.
ig I	59 1	Deg.	58	Der.	581	Deg.	58 <del>1</del>	Deg.	ista
A		8-	504		1	0"		0*	9

			4			<u> </u>				
ı	Distance	\$2	Deg.	321	Deg.	361	Deg.	30)	Deg.	Distance
ı	3	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	8
	1 2	0.85 1.70	0.53 1.06	0.85 1.69	0.53 1.07	0.84 1.69	0.54 1.07	0.84 1.68	0.54 1.08	1 2
ı	3	2.54	1.59	2.54	1.60	2.53	1.61	2.52	1.62	3.
I	4	3.39	2.12	3.38	2.13	3.37	2.15	3.36	2.16	4.
ı	5	4.24	2.65	4.23	2.67	4.22	2.69	4.21	2.70	5
ı	6	5.09 5.94	3.18 3.71	5.07 5.92	3.20 3.74	5.06 5.90	3.22 3.76	5.05 5.89	3.25 3.79	6
ł	8	6.78	4.24	6.77	4.27	6.75	4.30	6.73	4.33	8
ı	9	7.63	4.77	. 7.61		7.50	4.84	• 7.57	4.87	.91
l	10	8.48	5.30	8.46	5.34	8.43	5.37	8.41	5.41	10
ł	11 12	9.33 10.18	5.83 6.36	9.30 10.15	5.87 6.40	9. <b>2</b> 8 10.12	5.91 6.45	9.25 10.09	5.95 6.49	11 12
I	13	11.02	6.89	10.99	6.94	10.96	6.98	10.03	7.03	13
f	14	11.87	7.42	11484	7.47	11.81	7.52	11.77	7.57	14
ł	15	12.72	7.95	12.69	8.00	12.65	8.06	12.62	8.11	15
ı	16 17	13.57 14.42	8.48 9.01	13.53 14.38	8.54 9.07	13.49 14.34	8.60 9.13	13.46 14. <b>3</b> 0	8.66 9.20	16 17
4	18	15.26	9.54	15.22	9.61	15.18	9.67	15.14	9.74	18
l	19	16.11	10.07	16.07	10.14	16.02	10.21	15.98	10.28	19
I	20	16.96	10.60	16.91	10.67	16.87	10.75	16.82	10.82	20
١	21 22	17.81 18.66	11.13 11.66	17.76 18.61	11.21 11.74	17.71 18.55	11.28 11.82	17.66 18.50	11.36 11.90	21 22
1	23	19.51	12.19	19.45	12.27	19.40	12.36	19.34	12.44	23
١	24	20.35	12.72	20.30	12.81	20.24	12.90	20.18 21.03	12.98	24
ı	25	21.20	13.25	21.14	13.34	21.08	13.43		13.52	25
1	26 27	22.05 22.90	13.78 14.31	2199 22.83	13.87 14.41	21.93 22.77	13.97 14.51	21.87 22.71	14.07 14.61	26 27
١	28	23.75	14.84	23.68	14.94	23.61	15.04	23.55	15.15	28
·	29	24.59	15.37	24.53	15.47	24.46	15.58	24.39	15.69	29
ł	30	25.44	15.90	25.37	16.01	25.30	16.12	25.23	16.23	80
1	31 32	26.29 27.14	16.43 16.96	26.22 27.06	16.54 17.08	26.15 26.99	16.66 17.19	26.07 26.91	16.77 17.31	31 32
l	33	27.99	17.49	27.91	17.61	27.83	17.73	27.75	17.85	33.
1	34	28.83	18.02	28.75	18.14	28.68	18.27	28.60	18.39	34
1	35 36	29.68 30.53	18.55 19.08	29.60 30.45	18. <b>6</b> 8 19. <b>2</b> 1	29.52 30.36	18.81 19.34	29.44 30.28	18.93 19.48	35 36
J	37	31.38	19.61	31.29	19.74	31.21	19.88	30.28 31.12	20.02	37
1	38	32.23	20.14	32.14	20.28	32:05	20.42	31.96	20.56	38
	39 40	33.07 33.92	20.67	32.98 33.63	20.81 21.34	32.89 33.74	20.95 21.49	32.80 33.64	21.10 21.64	39 40
	41	34.77	21.73			<del></del>				41
	42	35.62	22.26	34.67 35.52	21.88 22.41	34.58 35.42	22.03 22.57	34.48 35.32	22.18 22.72	42
ı	43	36.47	22.79	36.37	22.95	36.27	23.10	36.16	23.26	43
ı	44 45	37.31 38.16	23.32 23.85	37.21	23.48 24.01	37.11 37.95	23.64 24.18	37.01 37.85	23.80 24.34	44 45
.l	46	39.01	24.38	38.90	24.55	38.80	24.72	38.69	24.88	46
ı	47	39,86*	24.91	39.75	25.08	39.64	25.25	39.53	25.43	47
1	48 49	40.71	25.44 25.97	40.59	25.61 26.15	40.48	25.79	40.37 •41.21	25.97	48 49
.	50	42.40	26.50	42.29	26.68	41.33 42.17	26.33 26.86	42.05	26.51 27.05	50 50
1	e G	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ė
	Dictance	5A 1	Deg.	E74	Deg.	WIL	Deg.	5.	Deg.	Distance.
Ť	A		~~ъ.	-17	~•5•	314	~69.	ant.	~6.	Ä

	Distance	<b>.32</b> I	) <b>48</b>	321	Dog.	32 <u>}</u> I	Deg.	32 <del>1</del> I	og.	Distance
,		Lat	Dep.	Lat	Dep.	Lat.	Dep.	Lat.	Dep.	9
5 5 5 5	2 4 4 4	43.25 44.10 14.95 45.79 46.64	27.03 27.56 28.09 28.62 29.15	43.13 43.98 44.82 45.67 46.51	27.21 27.75 28.28 28.82 29.35	43.01 43.86 44.70 45.54 46.39	27.40 27.94 28.48 29.01 29.55	42.89 43.73 44.58 45.42 46.26	27.59 28.13 28.67 29.21 29.75	51 52 53 54 55
5' 5' 5' 6'	8 4 7 4 8 4 9 8	47.49 48.34 49.19 50.03 50.88	29.68 30.21 30.74 31.27 31.80	47.36 48.21 49.05 49.90 50.74	29.88 30.42 30.95 31.48 32.02	47.23 48.07 48.92 49.76 50.60	30.09 30.63 31.16 31.70 32.94	47.10 47.94 48.78 49.62 50.46	30.29 30.84 31.38 31.92 32.46	56 57 58 59 60
6 6 6 6 6 6 6 7	2   1   1   1   1   1   1   1   1   1	51.73 52.58 53.43 54.28 55.12 55.97 56.82 57.67 58.52	32.33 32.85 33.38 33.91 34.44 34.97 35.50 36.03	51.59 52.44 53.28 54.13 54.97 55.82 56.66 57.51	32.55 33.08 33.62 34.15 34.68 35.22 35.75 36.29 36.82 37.35	51 45 52.29 53.13 53.98 54.82 55.66 56.51 57.35 58.19 59.04	32.78 33.31 33.85 34.39 34.92 35.46 36.00 36.54 37.07 37.61	51.30 52.14 52.99 53.83 54.67 55.51 56.35 57.19 58.03 58.87	33.00 33.54 34.08 34.62 35.16 35.70 36.25 36.79 37.33 37.87	61 62 63 64 65 66 67 68 69 70
7: 7: 7: 7: 7: 7:	1 (2 (3 (4 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6 (6	80.21 81.06 81.91 62.76 63.60 84.45 85.30 86.15 87.00 87.84	37.69 37.62 38.15 38.68 39.74 40.27 40.80 41.83 41.86 42.39	60.05 60.89 61.74 62.58 63.43 64.28 65.12 65.97 66.81 67.66	37.89 38.42 38.95 39.49 40.55 41.09 41.62 42.16 42.69	59.88 60.72 61.57 62.41 63.25 64.10 64.94 65.78 66.63 67.47	38.15 38.69 39.22 39.76 40.30 40.83 41.37 41.91 42.45 42.98	59.71 60.55 61.40 62.24 63.08 63.92 64.76 65.60 66.44 67.28	38.41 38.95 39.49 40.03 40.57 41.11 41.65 42.20 42.74 43.28	7i · 72 73 74 75 76 77 78 79 80
8 8 8 8 8 8 8	2 3 3 4 5 6 7 8 9	68.69 69.54 70.39 71.24 72.08 72.93 73.78 74.63 75.48 76.32	42.92 43.45 43.98 44.51 45.04 45.57 46.10 46.63 47.16 47.69	68.50 69.35 70.20 71.04 71.89 72.73 73.58 74.42 75.27 76.12	43.22 43.76 44.29 44.82 45.36 45.89 46.42 46.96 47.49 48.03	68.31 69.16 70.00 70.84 71.69 72.53 73.38 74.22 75.06 75.91	43.52 44.06 44.60 45.13 45.67 46.21 46.75 47.28 47.82 48.36	68.12 68.97 69.81 70.65 71.49 72.33 73.17 74.01 74.85 75.69	43.82 44.36 44.90 45.44 45.98 46.52 47.06 47.61 48.15 48.69	81 82 83 84 85 86 87 88 89
9: 9: 9: 9: 9: 9: 9: 100	2 7 3 7 4 7 5 6 8 7 8 8 8 9 8	77.17 78.02 78.87 79.72 80.56 81.41 82.26 83.11 83.96 84.80	48.22 48.75 49.28 49.81 50.34 50.87 51.40 51.93 52.46 52.99	76.96 77.81 78.65 79.50 80.34 81.19 482.04 82.88 83.73 84.57	48.56 49.09 49.63 50.16 50.69 51.23 51.76 52.29 52.83 53.36	76.75 77.59 78.44 79.28 80.12 80.97 81.81 82.65 83.50 84.34	48.89 49.43 49.67 50.51 51.04 51.58 52.12 52.66 53.19 53.73	76.53 77.38 78.22 79.06 79.90 80.74 81.58 82.42 83.26 84.10		91 92 93 94 95 96 97 98 99 100
Distance		Dep.   58 I	Let.	Dep.	Lat. Deg. •	Dep.	Lat.	Dep.	Lat.	Distance.

									<u> </u>
Distance.	33	Deg.		Deg.	<u> </u>	Deg.		Deg.	Distance.
9	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	è
'1	0.84	0.54	0.84 1.67	0.55	0.83	0.55	0.83	0.56	1
2 3	1.68 2.52	1.09 1.63	1.67 2.51	1.10 1.64	1.67 2.50	1.10 1.66	1.66 2.49	1.11	2 3
4	3.35	2.18	3.35	2.19	₹.34	2.21	3.33	2.22	4 5
5 6	4.19 5.03	2.72 3.27	4.18 5.02	2.74 3.29	4.17 5.00	2.76 3.31	4.16 4.99	2.78 3.33	5 6
7	5.87	3.81	5.85	3.84	5.84	3.86	5.82	3.89	6 7
,8	6.71	4.36	6.69	4.39	6.67	4.42	6.65	4.44	8
9 10	7.55 8.39	4.90 5.45	7.53 8.36	4.96 5.48	7.50 8.34	4.97 5.52	7.48 8.31	5.00 5.56	10
11	9.23	5.99	9.20	03	9.17	6.07	9.15	6.11 6.67	11 12
12 13	10.06 10.90	6.54 7.08	10.04 10.87	6.58 7.13	10.01 10.84	6.62 7.18	9.98 10.81	7.22	13
14	11.74	7.62	11.71	7.68	11.67	7.73	11.64	7.78	14
15 16	12.58 13.42	8.17 8.71	12.54 13.38	8.22 8.77	12.51 13.34	8.28 8.83	12.47 13.30	8.33	15 16
17	14.26	9.26	14.22	9.32	14.18	9.38	14.13	9:44	17
18 19	15.10 15.93	9.80 10.35	15.05 15.89	9.87 10.42	15.01 15.84	9.93	15000	10.00	18 19
20	16.77	10.89	16.73	10.97	16.68	11.04	16.63	11.11	20
21 22	17.61 18.45	11.44 11.98	17.56 18.40	11.51 12.06	17.51 18.35	11.59 12.14	17.46 18.29	11.67 12.22	21 22
23	19.29	12.53	19.23	12.61	19.18	12.69	19.12	12.78	23
24	20.13	13.07	20.07	13.16	20.01	13.25	19.96	13.33	24
25 26	20.97 21.81	13.62 14.16	20.91	13.71 14.26	20.85 21.68	13.80 14.35	20.79 21.62	13.89 14.44	25 26
27	22.64	14.71	22.58	14.80	22.51	14.90	22.45	15.00	27
28 29	23.48 24.32	15.25 15.79	23.42	15.35 15.90	23.35 24.18	15.45 16.01	23.28 24.11	15.56 16.11	28
30	25.16	16.34	25.09	16.45	26.02	16.56	24.94	16.67	30
31 32	26.00 26.84	16.88 17.43	25.92 26.76	17.00 17.55	25.85 26.68	17.11 17.66	25.78 26.61	17.22 17.78	31 32
33	27.68	17.97	27.60	18.09	27.52	18.21	27.44	18.33	33
34	28.51	18.52 19.06	28.43	18.64 19.19	28.35 29.19	18.77 19.32	28.27 29.10	18.89 19.44	34 35
35 36	29.35 30.19	19.61	29.27 30.11	19.74	30.02	19.87	29.93	20.00	36
37	31.03	20.15	30.94	20.29	30.85	20.42	30.76	20.56	37
38 39	31.87 32.71	20.70 21.24	31.78 32.62	20.84 21.38	31.69 32.52	20.97 21.53	31.60 32.43	21.11	38 39
40	33.55	21.79	33.45	21.93	33.36	22.08	33.26	22.22	40
41 42	34.39 36.22	22.33 22.87	34.29 35_12	22.48 23.03	34.19 35.02	22.63 23.18	34.09 34.92	22.78 23.33	41 42
43	36.06	23.42	34,56	23.58	35.86	23.73	35.75	23.89	43
44	36.90	23.96	36.80	24.12	36.69	24.29 24.84	36.58 37.42	24.45 25.00	44 45
45 46	37.74 38.58	24.51 25.05	37.63 38.47	24.67 25.22	37.52 38.36	25.39	38.25	25.56	46
47	39.42	25.60	39.31	25.77	39.19	25.94	39.08	26.11	47
48 49	40.26 41.09	26.14 26.69	40.14	26.32 26.87	40.03	26.49 27.04	39.91· 40.74	26.67 27.22	48 49
50	41.93	27.23	41.81	27.41	41.69	27.60	*1.57	27.78	50
ige.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	57	Deg.	56‡	Deg.	561	Deg.	56 <del>1</del>	Deg.	Distance.

أنس	-			-	<u>,                                     </u>		, , ,	-	
Distance	33	Deg.	334	Deg.	331	Deg.	331	Deg. *	Distance
į	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	108.
51	42.77	27.78	42.65	27.96	42.53	28.15	42.40	28.33	51
52	43.61	28.32	43.49 44.32	28.51 29.06	43.36 44.20	28.70	43.24	28.89 29.45	52 53
53 54	45.29	29.41	45.16	29.61	45.03	29.25	44.07	30.00	54
-55	46.13	29.96	46.00	30.16	45.86	30.36	45.73	30.56	55
36	46.97	30.50	46.83	30.70	46.70	30.91	46.56	31.11	56
57	47.80	31.04	47.67	31.25	47.53	31.46	47.39	31.67	57
58 59	48.64	31.59 32.13	48.50 49.34	31.80	48.37	32.01 32.56	48.23	32.22 32.78	58 59
60	50.32	32.68	50.18	32.90	50.03	33.12	49.89	33.33	60
61	51.16	33.22	51.01	33.45	50.87	33.67	50.72	33.89	61
62	52.00	33.77	51.85	33.99	51.70	34.22	51.55	34.45	62
63 64	52.84	34.31	52.69 53.52	34.54	52.53 53.37	34.77	52.38 53.21	35.00 35.56	63 64
65	54.51	35.40	54.36	35.64	54.20	35.88	54.05	36.11	65
66	55.35	35.95	55.19	36.19	55.04	36.43	54.88	36.67	66
67	56.19	36.49	56.03	36.74	55.87	36.98	55.71	37.22	67
68 69	57.03 57.87	37.04 37.58	56.87 57.70	37.28 37.83	56.70 57.54	37.53 38.08	56.54 57.37	37.78	68 69
70	58.71	38.12	58.54	38.38	58.37	38.64	58.20	38.89	70
71	59.55	38.67	59.38	38.93	59.21	39.19	59.03	39.45	71
72	60.38	39.21	60.21	39.48	60.04	39.74	59.87	40.00	72
73 74	61.22	39.76 40.30	61.05 61.89	40.03	60:87	40.29	60.70	40.56	73 74
75	62.90	40.85	62.72	41.12	62.54	41.40	62.36	41.67	75
76	63.74	41.39	63.56	41.67	63.3	41.95	63.19	42.22	76
77	64.58	41.94	64.39	42.22	64.21	42.50	64.02	42.78	77
78 79	65.42 66.25	42.48 43.03	65.23 66.07	42.77	65.04 65.88	43.05 43.60	64.85	43.33	78 79
80	67.09	43.57	66.90	43.86	66.71	44.15	66.52	44.45	80
81	67.93	44.12	67.24	44.41	67.54	44.71	67.35	45.00	81
82	68.77	44.66	68.58	44.96	68.38	45.26	68.18	45.56	82
83 84	69.61 70.45	45.20 45.75	69.41 70.25	45.51 46.06	69.21 70.05	45.81 46.36	69.01 69.84	46.67	83 84
85	71.29	46.29	71.08	46.60	70.88	46.91	70.67	47.22	85
86	72.13	`46.84	71.92	47.15	71.71	47.47	71.51	47.78	86
87	72.96	47.36	72.76	47.70	72.55	48.02	72.34	48.33	87.1
88 89	73.80 74.64	47.93 48.47	73.59 74.43	48.25 48.80	73.38 74.22	48.57 49.12	73.17 74.00	48.89 49.46	88
90	75.48	49.02	75.27	49.35	75.05	49.67	74.83	50.00	90
91	76.32	49.56	76.10	49.89	75.88	50.23	75.66	50.56	91
92	77.16	50.11	76.94	50.44	76.72	50.78	76.50	51.11	92
93 94	78.00 78.83	50.65 51.20	77.77 78.61	50.99 51.54	77.55 78.39	51.33 51.88	77.33	51.67 52.22	93 94
95	79.67	51.74	79.45	52.09	79.22	52.43	78.99	52.78	95
96	80.51	52,29	80.28	52.64	80.05	52.99	79.82	53.33	96
97 98	81.35	527.83	81.12	53.18	80.89	53.54	80.65	53.89	97 98
99	82.19 83.03	53.37 53.32	84.96 82.79	53.73 54.28	81.72 82.55	54.09 54.64	81.48 82.32	54.45 55.00	99
100	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	100
Ge	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	106
Distance	. 57 1	Oeg.	562	Deg.	56 <u>1</u>	Deg. ·	561	Deg.	Distance

			·				_	٠	2
.Distance	34			Deg.		Deg.		Deg.	Distance
3	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
1	0.83	0.56	0.83	0.56	0.82	0.57	0.82	0.57	1
2 3	1.66 2.49	1.12 1.68.	1.65 2.48	1.13 1.69	1.65 2.47	1.13 1.70	1.64 2.46	1.14	2 3
4	3.32	2.24	3.31	2.25	3.30	2.27	3.29	2.28	4
5 6	4.15	2.80 3.36	4.13	2.81 3.38	4.12	2.83 3.40	4.11	2.85 3.42	6
7	5.80	3.91	5.79	3.94	5.77	3.96	5.75	3.99	6 7 8
8	6.63 7.46	4.47 5.03	6.61	4.50 5.07	6.59	4.53 5.10	6.57 7.39	4.56 5.13	9
10	8.29	5.59	8.27	5.63	8.24	5.66	8.22	5.70	10
11	9.12	6.15	9.09	6.19	9.07	. 6.23	9.04	6.27	11
12 13	9.95 10.78	6.71 7.27	9.92 10.75	6.75 7.32	9.89 10.71	6.80 7.36	9.86 10.68	6.84	12 13
14	11.61	7.83	11.57	7.88	11.54	7.93	11.50	7.98	14
15 16	12.44 13.26	8.39 .8.95	12.40 13.23	8.44 9.00	12.36 13.19	8.50 9.06	12.32 13.15	8.55 9.12	15 16
17	14.09	9.51	14.05	9.57	14.01	9.63	13.97	9.69	17
18 19	14.92 15.75	10.07 10.62	14.88 15.71	10.13 10.69	14.83 15.66	10.20 10.76	14.79 15.61	10.26 10.83	18 19
20	16.58	11.18	16.53	11.26	16.48	11.33	16.43	11.40	20
21	17.41	11.74	17.36 18.18	11.82	17.31	11.89 12.46	17.25	11.97 12.54	21
22 23	18.24 19.07	12.30 12.86	19.01	12.38 12.94	18.13 18.95	13.03	18.08 18.90	13.11	22 23
24	19.90	13.42	19.84	13.51	19.78	13.59	19.72	13.68	24
25 26	20.73 21.55	13.98 14.54	20.66 21.49	14.07 14.63	20.60 21.43	14.16 14.73	20.54 21.36	14.25 14.82	25 26
27	22.38	15.10	22.32	15.20	22.25	15.29	22.18	15.39	27
28 29	23.21 24.04	15.66 16.22	23.14 23.97	15.76 16.32	23.08 23.90	15.86 16.43	23.01 23.83	15.96 16.53	28 29
30	24.87	16.78	24.80	16.88	24.72	16.99	24.65	17.10	30
31 32	25.70	17.33 17.89	25.62 26.45	17.45 18.01	25.55 26.37	56 18.12	25.47 26.29	17.67 18.24	31 32
33	26 53 27 36	18.45	27.28	18.57	27.20	18.69	27.11	18.81	33
34 35	28.19 29.02	19.01 19.57	28.10 28.93	19.14 19.70	28.02 28.84	19.26 19.82	27.94 28.76	19.38 19.95	34 35
36	29.85	20.13	29.76	20.26	29.67	20.39	29.58	20.52	36
37	30.67	20.69	30.58	20.82	30.49	20.96	30.40	21.09	37
38 39	31.50 32.33	21.25 21.81	31.41 32.24	21.39 21.95	31.32 32.14	21.52 22.09	31.22 32.04	21.66 22.23	38 39
40	33.16	22.37	33.06	22.51	32.97	22.66	32.87	22.80	40
41 42	33.99 34.82	22.93 23.49	33.89 34.72	23.07 23.64	33.79 34.61	23.22 23.79	33.69 34.51	23.37 23.94	41 42
48	35.65	24.05	35.54	24.20	35.44	23.79 24:36	34.51 35.33	23.94	43
44	36.48	24.60	36.37	24.76	36.26	24.92	36.15	25.08	44
45 46	37.31 38.14	25.16 25.72	37.20 38.02	25.33 25.89	37.09 37.91	25.49 26.05	36.97 37 <b>,2</b> 0	25.65 26.22	45 46
47	38.96	26.28	38.85	26.45	38.73	26.62	38.62	26.79	47
48 49	39.79 40.62	26.84 27.40	39.68 40.50	27.01 27.58	39.56 · 40.38	27.19 27.75	39.44 40 <b>.</b> 26	27.36 27.93	48 49
50	41.45	27.96	41.33	28.14	41.21	28.32	41.08	28.50	50
106	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	noe.
Distance	KR 1	Deg.	• 553	Deg.	ARI	Deg.	551	Deg.	Distance
ä	50,	-E-	007	eg.	009	₽-65.	004	206.	۵

	<del>                                     </del>	Ţ	-		7				
Distance	34 1	eg.	341	Deg,	34 <u>1</u> I	Jeg.	34 <u>}</u> I	og.	Distance
5	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	\$
51	42.28	28.52	42.16	28.70	42.03	28.89	41.90	29.07 29.64	51
52 53	43.11 43.94	29.08 29.64	42.98 43.81	29.27 29:83	·42.85 43.68	29.45 30.02	42.73 43.55	30.21	52 53
54	44.77	30.20	44.64	30.39	44.50	30.59	44.37	30.78	54
55	45.60	30.76	45.46	30.95	45.33	31.15	45.19	31.35	55
56 57	46.43 47.26	31.31	46.29 47.12	31.52 32.08	46.15 46.98	31.72 32.29	46.01	31.92 32.49	56 57
58	48.08	32.43	47.94	32.64	47.80	32.85	47.66	33.06	58
59	48.91	32.99	48.77	33.21	48.62	33.42	48.48	33.63	59
60	49.74	33.55	49.60	33.77	49.45	33.98	49.30	34.20	60
61	50.57	34.11	50.42	34.33	50.27	34.55	50.12	34.77	61
62 63	51.40 52.23	34.67 35.23	51.25 52.08	34.89 35.46	51.10 51.92	35.12 35.68	50.94 51.76	35.34 35.91	62 63
64	53.06	35.79	52.90	36.02	52.7	36.25	52.59	36.48	64
65	53.89	36.35	53.73	36.58	53.57	36.82	53.41	37.05	65
66	54.72	36.91	54.55	37.15	54.5	37.38	54.23	37.62	66
67 68	55.55 56.37	37.46 38.03	55.38 56.21	37.71 38.27	55.22 56.04	37.95 38.52	55.05 55.87	38.19	68
69	57.20	38.58	57.03	38.83	56.86	39.08	56.69	39.33	69
70	58.03	39.14	57.86	39.40	57.69	39.65	57.52	39.90	70
71	58.86	39:70	58.69	39.96	58.51	40.21	58.34	40.47	71
72	59.69	40.26	59.51	40.52	59.34	40.78	59.16	41.04	72
73 74	60.52	40.82	60.34	41.65	60.16 60.99	41.35	59.98 60.80	41.61	73 74
75	62.18	41.94	61.99	42.21	61.81	42.48	61.62	42.75	75
76	63.01	42.50	62.82	42.77	62.63	43.05	62.45	43.32	76
77	63.84	43.06	63.65	43.34	63.46	43.61	63.27	43.89	77
78 79	64.66	43.62 44.18	64.47	43.90 44.46	64.28 65.11	44.75	64.09 64.91	44.46	78 79
80	66.32	44:74	66.13	45.02	65.93	45.31	65.73	45.60	90
81	67.15	45.29	66.95	45.59	66.75	45.88	66.55	46.17	81
82	67.98	45.85	67.78	46.15	67.58	46.45	67.37	46.74	82
83 84	68.81 69.64	46.41	68.61 69.43	46.71 47.28	68.40 60.23	47.01 47.58	68.20	47.31	83
85	70.47	47.53	70.26	47.84	70.05	48.14	€9.84	48.45	85
86	71.30	48.09	71.09	48.40	70.87	48.71	70.66	49.02	86
87 88	72.13 72.96	48.65	71.91	48.96	71.70	49.28	71:48	49.59	87
89	73.78	49.21	72.74 73.57	49.53 50.09	72.52 73.35	49.84 50.41	72.30 73.13	50.16 50.73	88
90	74.61	50.33	74.39	50.65	74.17	50.98	73.95	51.30	90
91	75.44	50.89	₩.22	51.22	75.00	51.54	74.77	51.87	91
92	76.27	51.45	76.05	51.78	75.82	52.11	75.59	52.44	92
93 94	77.10 77.93	52.00 52.56	76.87 77.70	52.34 52.90	76.64	52.68	76.41	53.01	93 94
4 2	78.76	53, 12	78.53	53.47	77.47 78.29	53.24 53.81	78.06	53.58 54.15	
96	79.59	53.68	79.35	54.03	79.12	54.37	78.88	54.72	96
97 98	80.42	54.24	80.18	54.59	79.94	54.94	79.70	55.29	97
99	81.25 82.07	54.80 55.36	81.01 81.83	55.15 55.72	80.76 81.59	55.51 56.07	80.52 81.34	55.86 56.43	98 99
100	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	100
je.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	9
Dista	56 I	eg.	55 <del>1</del>	Deg.	553	Deg.	551	Deg.	Distance.

Đ.	35	Deg.	351	Deg.	36]	Dec.	951	beg.	5	=
Distance.		J. 6.		, Jug.	305	ഗമ്യ.	307	Deg.	Distance	ŀ
<u>\$</u>	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Ge.	;
1	0.82	0.57	0.82	0.58	0.81	0.58	0.81	0.58		1
2 3	1.64 2.46	1.15	1.63 2.45	1.15	1.63 2.44	1.16 1.74	1.62 2.43	1.17	1 5	Z
4	3.28	2.29	3.27	2.31	3.26	2.32	3.25	1.75 2.34		3
5	4.10	2.87	4.08	2.89	4.07	2.90	4.06	2.92	E	
6 7	4.91	3.44	4.90	3.46	4.88	3.48	4.87	3.51	1 6	3
8	5.73 6.55	4.01 4.59	5.72 6.53	4.04	5.70 6.51	4.06 4.65	5.68	4.09 4.67	1 3	
9	7.37	5.16	7.35	5.19	7.33	5.23	7.30	5.26	1.8	
10	8.19	5.74	8.17	5.77	8.14	5.81	8.12	5.84	10	
11	9.01	6.31	8.98	6.35	8.96	6.39	8.93	6.43	11	
12 13	9.83	6.88 7.46	9.80	6.93 7.50	9.77 10.58	6.97 7.55	9.74 10.55	7.01 7.60	12	
14	11.47	8.03	11.43	€.08	11.40	8.13	11.36	8.18	14	
15	12.29	8.60	12.25	_8.66	12,21	8.71	12.17	8.76	15	
16 17	13.11	9.18 9.75	13.07 13.88	9.23 9.81	13.03	9.29	12.99	9.35	16	
18	14:74	10.32	14.70	10.39	13.84 14.65	9.87 10.45	13.80 14.61	9.93 10.52	17   18	
19	15.56	10.90	15.52	10.97	15.47	11.03	15.42	11.10	19	-
20	16.38	11.47	16.33	11.54	16.28	11.61	16.23	11.68	20	
21 22	17.20 18.02	12.05 12.62	17.15 17.97	12.12 12.70	17.10	12.19	17.04	12.27	21	1
23	18.84	13.19	18.78	13.27	17.91 18.72	12.78 13.36	17.85 18.67	12.85 13.44	22 23	
24	19.66	43.77	19,60 20.42	13.85	19.54	13.94	19.48	14.02	24	1
25	20.48	14.34	20.42	14.43	20.35	14.52	20.29	14.61	25	1
26 27	21.30 22.12	14.91 15.49	21.23 22.05	15.01 15.58	21.17 21.98	15.10 15.68	21.10 21.91	15.19 15.77	26 27	I
28	22.94	16.06	22.87	16.16	22.80	16.26	22.72	16.36	28	
29	23.76	16.63	23.68	16.74	23.61	16.84	23.54	16-94	29	1
30	24.57	17.21	24.50	17.31	24.42	17.42	24.35	17.53	30	ı
31 32	25.39 26.21	17.78 18.35	25:32 26.13	17.89 18.47	25.24 26.05	18.00 18.58	25.16	18.11 18.70	31 32	ı
33	27.03	18.93	26.13	19.05	26.87	19.16	25.97 26.78	19.28	33	H
34	27.85	19.50	27.77	19.60	27.68	19.74	27.59	19.86	34	H
35 36	28.67 29.49	20.03 20.65	28.58	20.20	28.49	20.32	28.41	20.45	35	I
37	30.31	21.22	29.40 30.22	20.78 21.35	29.31 30.12	20.91 21.49	29.22 30.03	21.03	36 37	M
38	31.13	21.80	31.03	21.93	30.94	22.07	30.84	22.20	38	I
39	31.95	22.37	31.85	22.51	31.75	22.65	31,65	22.79	39	ı
40	32.77	22.94	32.67	23.09	32.56	23.23	32.46	23.37	40	ı
41 42	33.59 34.40	23.52 24.09	33.48 34.30	23.66 24.24	33.38 34.19	23.8 <b>9</b> 24.39	33.27 34.09	23.95 24.54	41 42	I
43	35.22	24.66	35.12	24.82	<b>3</b> 5.01	24.97	34.90	25.12	43	
44	36.94	25.24	35.93	25.39	35.82	25.55	35.71	25.71	44	ı
45 46	36.86 37.68	25.81 26.38	36.75 37.57	25.97 26.55	36.64	26.13	36.52	26.29	45 46	ı
47	38.50	26.96	38.38	27.13	37.45 38.26	26.71 27.29	37.33 38.14	26.88 27.46	47	ı
48	39.32	27.53	39.20	27.70	39.08	27.87	38.96	28.04	48	ı
49 50	40.14	28.11 28.68	40.02	28.28 28.86	39.89 40.71	28.45 29.04	39.77 40.58	28.63 29.21	49 50	ł
8	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	و و	I.
Distance.		Deg.		Deg.		Deg.		Deg.	Dista	

Distance.	35	Deg.	351	Deg.	351	Deg.	35‡	Deg.	Distance
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	c.
51 52 53 54 55 56 57 58	41.78 42.60 43.42 44.23 45.05 45.87 46.69	29.25 29.83 30.40 30.97 31.55 32.12 32.69 33.27	41.65 42.47 43.28 44.10 44.92 45.73 46.55	29.43 30.01 30.59 31.17 31.74 32.32 32.90	41.52 42.33 43.15 43.96 44.78 45.59 46.40 47.22	29.62 30.29 30.78 31.36 31.94 32.52 33.10 33.68	41.39 42.20 43.01 43.82 44.64 45.45 46.26 47.07	29.80 30.38 30.97 31.55 32.13 32.72 33.30 33.89	51 52 53 54 55 56 57 58
59 60	48.33 49.15	33.84 34.41	48.18 49.00	34.05 34.63	48.03 48.85	34.26 34.84	47.88 48.69	34.47 35.05	59 60
61 62 63 64 65 66 67 68 69 70	49.97 50.79 51.61 52.43 53.24 54.06 54.88 55.70 56.52 57.34	34.99 35.56 36.14 36.71 37.28 37.86 38.43 39.00 39.58 40.15	49.82 50.63 51.45 52.27 53.08 53.90 54.71 55.63 56.35	35.21 35.78 36.36 36.94 37.51 38.09 38.67 39.25 39.82 40.40	49.66 50.48 51.29 52.10 52.92 53.73 54.55 55.36 56.17 56.99	35.42 36.00 36.58 37.16 37.75 38.33 38.91 39.49 40.07 40.65	49.51 50.32 51.13 51.94 52.75 53.56 54.38 55.19 56.00 56.81	35.64 36.22 36.81 37.39 37.98 38.56 39.14 39.73 40.31 40.90	61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78	58.16 58.98 59.80 60.62 61.44 62.26 63.07 63.89	40.72 41.30 41.87 42.44 43.02 43.59 44.17 44.74	57.98 58.80 59.61 60.43 61.25 62.06 62.88 63.70	40.98 41.55 42.13 42.71 43.29 43.86 44.44 45.02	57.80 58.62 59.43 60.24 61.06 61.87 62.69 63.50	41.23 41.81 42.39 42.97 43.55 44.13 44.71 45.29	57.62 58.43 59.24 60.06 60.87 61.68 62.49 63.30	41.48 42.07 42.65 43.23 43.82 44.40 44.99 45.57	71 72 73 74 75 76 77 78
79 80	64.71 65.53	45.31 45.89	64.51 65.33	45.59 46.17	64.32 65.13	45.88 46.46	64.11 64.93	46.16 46.74	79 80
81 82 83 84 85 86 87 88 89 90	66.35 67.17 67.99 68.81 69.63 70.45 71.27 72.09 72.90 73.72	46.46 47.03 47.61 48.18 48.75 49.33 49.90 50.47 51.05 51.62	66.15 66.96 67.78 68.60 69.41 70.23 71.05 71.86 72.68 73.50	46.75 47.33 47.90 48.48 49.06 49.63 50.21 50.79 51.37 51.94	65.94 66.76 67.57 68.39 69.20 70.01 70.83 71.64 72.46 73.27	47.04 47.62 48.20 48.78 49.36 49.94 50.52 51.10 51.68 52.26	65.74 66.55 67.36 68.17 68.98 69.80 70.61 71.42 72.23 73.04	47.32 47.91 48.49 49.08 49.66 50.25 50.83 51.41 52.00 52.58	81 82 83 84 85 86 87 88 89
91 92 93 94 95 96 97 98 99 100	74.54 75.36 76.18 77.00 77.82 78.64 79.46 80.28 81.10 81.92	52.20 52.77 53.34 53.92 54.49 55.06 55.64 56.21 56.78 57.36 Lat.	74.31 75.13 75.95 76.76 77.58 78.40 79.21 80.03 80.85 81.66 Dep.	52.52 53.10 53.67 54.25 54.83 55.41 55.98 56.56 57.14 57.71 Lat.	74.08 74.90 75.71 76.53 77.34 78.16 78.97 79.78 80.60 81.41 Dep.	52.84 53.42 54.01 54.59 55.17 55.75 56.33 56.91 57.49 58.07	73.85 74.66 75.48 76.29 77.10 77.91 78.72 79.53 80.35 81.16 Dep.	53.17 53.75 54.34 54.92 55.50 56.67 57.26 57.84 58.42 Lat.	91 92 93 94 95 96 97 98 99 100
Distance	55 I		541		541		541	Deg.	Distance.

		التجنية							<b>, , , , , , , , , , , , , , , , , , , </b>
Distance	36	Deg.	361	Deg.	361	Deg.	361	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ice.
1	0.81	0.59	0.81	0.59	0.80	0.59	0.80	0.60	1
2 3	1.62 2.43	1.18 1.76	1.61 2.42	1.18 1.77	1.61 2.41	1.19 1.78	1.60 2.40	1.20 1.79	3
4	3.24	2.35	3.23	2.37	3.22	2.38	3.20	2.39	1 4
5	4.05	2.94	4.03	2.96	4.02	2.97	4.01	2.99	5
6	4.85	3.53	4.84	3.55	4.82	3.57	4.81	3.59	6
7	5.66	4.11	5.65	4.14	5.63	4.16 4.76	5.61	4.19 4.79	8
8	6.47 7.28	4.70 5.29	6.45 7.26	4.73 5.32	6.43 7.23	5.35	6.41 7.21	5.38	9
10	8.09	5.88	8.06	5.91	8.04	5.95	8.01	5.98	10
11	8.90	6.47	8.87	6.50	8.84	6.54	8.81	6.58	11
12	9.71	7.05	9.68	7.10	9.65	7.14	9.61	7.18	12
13 14	10.52 11.33	7.64 8.23	10.48 11.29	7.69 8.28	10.45 11.25	7.73 8. <b>3</b> 3	10.42 11.22	7.78 8.38	13 14
15	12.14	8.82	12.10	8.87	12.06	8.92	12.02	8.97	15
16	12.94	9.40	12.90	9.46	12.86	9.52	12.82	9.57	16
17	13.75	9.99	13.71	10.05	13.67	10.11	13.62	10.17	17
18	14.56	10.58	14.52	10.64	14.47	10.71	14.42	10.77	18
19 <b>2</b> 0	15.37 16.18	11.17 11.76	15.32 16.13	11.23 11.83	15.27 16.08	11.30 11.90	15.22 16.03	11.37 11.97	19 20
21	16.99	12.34	16.94	12.42	16.88	12.49	16.83	12.56	21
22	17.80	12.93	17.74	13.01	17.68	13.09	17.63	13.16	22
23	18.61	13.52	18.55	13.60	18.49	13.68	18.43	13.76	23
24 25	19.42 20.23	14.11 14.69	19.35 20.16	14.19 14.78	19.29 20.10	14.28 14.87	19.23 20.03	14.36 14.96	24 25
26	21.03	15.28	20.10	15.37	20.90	15.47	20.83	15.56	26
27	21.84	15.87	21.77	15.97	21.70	16.06	21.63	16.15	27
28	22.65	16.46	22.58	16.56	22.51	16.65	22.44	16.75	28
29 30	23.46 24.27	17:05	23.39	17.15	23.31	17.25	23.24	17.35	29 30
		17.63	24.19	17.74	24.12	17.84	24.04	17.95	
31 <b>32</b>	25.08 25.89	18.22 18.81	25.00 25.81	18.33 18.92	24.92 25.72	18.44 19.03	24.84 25.64	18.55 19.15	31 32
33	26.70	19.40	26.61	19.51	26.53	19.63	26.44	19.74	33
34	27.51	19.98	27.42	20.10	27.33	20.22	27.24	20.34	34
35 36	28.32 29.12	20.57 21.16	28.23 29.03	20.70 21.29	28.13	20.82	28.04 28.85	20.94 21.54	35 36
37	29.93	21.75	29.84	21.88	28.94 29.74	21.41 22.01	29.65	22.14	37
38	30.74	22.34	30.64	22.47	30.55	22.60	30.45	22.74	38
39	31.55	22.92	31.45	23.06	31.35	23.20	31.25	23.33	39
40	32.36	23.51	32.26	23.65	32.15	23.79	32.05	23.93	40
41	33.17	24.10	33.06	24.24	32.96	24.39	32.85	24.53	41
42	33.98	24.69	33.87	24.83	33.76	24.98	33.65	25.13	42 43
43 44	34.79 35.60	25.27 25.86	34.68 35.48	25.43 26.02	34.57 35.37	25.58 26.17	34.45 35.26	25.73 26.33	44
45	36.41	26.45	36.29	26.61	36.17	26.77	36.06	26.92	45
46	37.21	27.04	37.10	27.20	36.98	27.36	36.86	27.52	46
47	38.02	27.63	37.90	27.79	37.78	27.96	37.66	28.12	47
48 49	38.83	28.21	38.71	28.38	38.59	28.55	38.46	28.72	48 49
50	39.64 40.45	28.80 29.39	39.52 40.32	28.97 29.57	39.39 40.19	29.15 29.74	39.26 40.06	29.32 29.92	50 50
lce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	je.
Distance.	54 I	Deg.	534	Deg.	53}	Deg.	531	Deg.	Distance.

Distance	36 I	Deg.	361 ]	Deg.	361 1	Deg.	361	Deg.	Dista
E.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Distance.
51 52	41.26 42.07	29.98 30.56	41.13 41.94	30.16 30.75	41.00 41.80	30.34 30.93	40.86 41.67	30.51 31.11	51 52
53	42.88	31.15	42.74	31.34	42.60	31.53	42.47	31.71	53
54	43.69 44.50	31.74	43.55 44.35	31.93 32.52	43.41	32.12 32.72	43.27 44.07	32.31	54
55 56	45.30	32.92	45.16	33.11	45.02	33.31	44.87	33.51	55
57	46.11	33.50	45.97	33.70	45.82	33.90	45.67	34.10	57
58	46.92	34.09	46.77	34.30	46.62	34.50	46.47	34.70	58
59 60	47.73 48.54	34.68 35.27	47.58 48.39	34.89 35.48	47.43 48.23	35.09 35.69	47.27 48.08	35.30 35.90	59 60
61 62	49.35 50.16	35.85 36.44	49.19 50.00	36.07 36.66	49.04 49.84	36.28 36.88	48.88 49.68	36.50 37.10	61 62
63	50.97	37.03	50.81	37.25	50.64	37.47	50.48	37.69	63
64	51.78	37.62	51.61	37.84	51.45	38.07	51.28	38.29	64
65 66	52.59	38.21	52.42	38.44	52.25	38.66	52.08	38.89	65 66
67	53.40 54.20	38.79 39.38	53.23 54.03	39.03 39.62	53.05 53.86	39.26 39.85	52.88 53.68	39.49 40.09	67
68	55.01	39.97	54.84	40.21	54.66	40.45	54.49	40.69	68
69	55.82	40.56	55.64	40.80	55.47	41.04	55.29	41.28	69
70	56.63	41.14	56.45	41.39	56.27	41.64	56.09	41.88	70
71 72	57.44	41.73	57.26	41.98	57.07	42.23	56.89	42.48	71
73	58.25 59.06	42.32 42.91	58.06 58.87	42.57 43.17	57.88 58.68	42.83 43.42	57.69 58.49	43.08 43.68	72
74	59.87	43.50	59.68	43.76	59.49	44.02	59.29	44.28	74
75	60.68	44.08	60.48	44.35	60.29	44.61	60.09	44.87	75
76	61.49	44.67	61.29	44.94	61.09	45.21	60.90	45.47	76
77 78	62.29 63.10	45.26 45.85	62.10 62.90	45.53 46.12	61.90 62.70	45.80 46.40	61.70 62.50	46.07	77 78
79	63.91	46.43	63.71	46.71	63.50	46.99	63.30	47.27	79.
80	64.72	47.02	64.52	47.30	64.31	47.59	64.10	47.87	80
81	65.53	47.61	65.32	47.90	65.11	48.18	64.90	48.46	81
82 83	66.34 67.15	48.20 48.79	66.13	48.49 49.08	65.92 66.72	48.78 49.37	65.70 66.50	49.06	82 83
84	67.96	49.37	66.93	49.67	67.52	49.97	67.31	50.26	84
85	68.77	49.96	68.55	50.26	68.33	50.56	68.11	50.86	85
86	69.58	50.55	69.35	50.85	69.13	51.15	68.91	51.46	86
87 88	70.38 71.19	51.14 51.73	70.16 70.97	51.44 52.04	69.94 70.74	51.75 52.34	69.71 70.51	52.05 52.65	87 88
89	72.00	52.31	71.77	52.63	71.54	52.94	71.31	53.25	89
90	72.81	52.90	72.58	53.22	72.35	53.53	72.11	53.85	90
91	73.62	53.49	73.39	53.81	73.15	54.13	72.91	54.45	91
92	74.43	54.08	74.19	54.40	73.95	54.72	73.72	55.05	92
93 94	75.24 76.05	54.66 55.25	75.00 75.81	54.99 55.58	74.76 75.56	55.32 55.91	74.52 75.32	55.64 56.24	93 94
95	76.86	55.84	76.61	56.17	76.37	56.51	76.12	56.84	95
96	77.67	56.43	77.42	56.77	77.17	57.10	76.92	57.44	96
97	78.47	57.02	78.23	57.36	77.97	57.70	77.72	58.04	97 98
98 99	79.28 80.09	57.60 58.19	79.03 79.84	57.95 58.54	78.78 79.58	58.29 58.89	78.52 79.32	58.64 59.23	99
100	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	100
ice.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	noe.
Distance	54 I	eg.	531	Deg.	531	Deg.	53 <del>1</del> 1	Deg.	Distance.

Distance.	37	Deg.	371 Lat.	Deg.	37½	Deg.	374 Lat.	Deg.	Distance
-									<u>                                     </u>
1	0.80	0.60	0.80	0.61	0.79	0.61	0.79	0.61	1
2 3	1.60 2.40	1.20 1.81	1.59 2.39	1.21	1.59 2.38	1.22	1.58	1.22	2
4	3.19	2.41	3.18	2.42	3.17	2.43	2.37 3.16	1.84 2.45	3 4
5	3.99	3.01	3.98	3.03	3.97	3.04	3.95	3.06	5
6	4.79	3.61	4.78	3.63	4.76	3.65	4.74	3.67	6
7	5.59	4.21	5.57	4.24	5.55	4.26	5.53	4.29	7
8	6.39	4.81	6.37	4.84	6.35	4.87	6.33	4.90	8
9 10	7.19 7.99	5.42 6.02	7.16 7.96	5.45 6.05	7.14 7.93	5.48 6.09	7.12	5.51 6.12	10
11	8.78	6.62	8.76						-
12	9.58	7.22	9.55	6.66 7.26	8.73 9.52	6.70 7.31	8.70	6.73	111
13	10.38	7.82	10.35	7.87	10.31	7.91	9.49	7.35 7.96	12
14	11.18	8.43	11.14	8.47	11.11	8.52	11.07	8.57	14
15	11.98	9.03	11.94	9.08	11.90	9.13	11.86	9.18	15
16	12.78	9.63	12.74	9.68	12.69	9.74	12.65	9.80	16
17 18	13.58 14.38	10.23 10.83	13.53 14.33	10.29 10.90	13.49	10.35	13.44	10.41	17
19	15.17	11.43	15.12	11.50	14.28 15.07	10.96 11.57	14.23 15.02	11.02	18
20	15.97	12.04	15.92	12.11	15.87	12.18	15.02	11.63 12.24	19 20
21	16.77	12.64	16.72	12.71	16.66	12.78	16.60	12.86	21
22 23	17.57 18.37	13.24 13.84	17.51	13.32	17.45	13.39	17.40	13.47	22
24	19.17	14.44	18.31 19.10	13.92 14.53	18.25 19.04	14.00 14.61	18.19	14.08	23
25	19.97	15.05	19.90	15.13	19.04	15.22	18.98 19.77	14.69 15.31	24 25
26	20.76	15.65	20.70	15.74	20.63	15.83	20.56	15.92	26
27	21.56	16.25	21.49	16.34	21.42	16.44	21.35	16.53	27
28	22.36	16.85	22.29	16.95	22.21	17.05	22.14	17.14	28
29 30	23.16	17.45	23.08	17.55	23.01	17.65	22.93	17.75	29
	23.96	18.05	23.88	18.16	23.80	18.26	23.72	18.37	30
31 32	24.76 25.56	18.66 19.26	24.68 25.47	18.76 19.37	24.59 25.39	18.87 19.48	24.51 25.30	18.98 19.59	31 32
33	26.35	19.86	26.27	19.97	26.18	20.09	26.09	20.20	33
34	27.15	20.46	27.06	20.58	26.97	20.70	26.88	20.82	34
35	27.95	21.06	27.86	21.19	27.77	21.31	27.67	21.43	35
36 37	28.75 29.55	21.67	28.66	21.79	28.56	21.92	28.46	22.04	36
38	30.35	22.27 22.87	29.45 30.25	22.40 23.00	29.35 30.15	22.52 23.13	29.26	22.65	37
39	31.15	23.47	31.04	23.61	30.94	23.74	30.05 30.84	23.26 23.88	38 39
40	31.95	24.07	31.84	24.21	31.73	24.35	31.63	24.49	40
41 42	32.74	24.67	32.64	24.82	32.53	24.96	32.42	25.10	41
43	33.54 34.34	25.28 25.88	33.43	25.42	33.32	25.57	33.21	25.71	42
44	35.14	26.48	34.23 35.02	26.03 26.63	34.11 34.91	26.18 26.79	34.00	26.33	43
45	35.94	27.08	35.82	27.24	35.70	27.39	34.79 35.58	26.94 27.55	44 45
46	36.74	27.68	36.62	27.84	36.49	28.00	36.37	28.16	46
47	37.54	28.29	37.41	28.45	37.29	28.61	37.16	28.77	47
48 49	38.33	28.89	38.21	29.05	38.08	29.22	37.95	29.39	48
50	39.13 39.93	29.49 30.09	39.00 39.80	29.66 30.26	38.87 39.67	29.83 30.44	38.74 39.53	30.00 30.61	49 50
je G	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	
Distance.									anc
Ö	63 1	Deg.	521	Deg.	521	Deg.	5 <b>2</b> 1	Deg.	Distance.
								1	12

Dis	37	Deg.	371	Deg.	371	Deg.	374	Deg.	Dig
Distance.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Distance.
51 52	40.73 41.53	30.69 31.29	40.60 41.39	30.87 31.48	40.46 41.25	31.05 31.66	40.33 41.12	31.22 31.84	51 52
53	42.33	31.90	42.19	32.08	42.05	32.26	41.91	32.45	53
54	43.13	32.50	42.98	32.69	42.84	32.87	42.70	33.06	54
55 56	43.92 44.72	33.10 33.70	43.78 44.58	33.29 33.90	43.63 44.43	33.48 34.09	43.49 44.28	33.67 34.28	55 56
57	45.52	34.30	45.37	34.50	45.22	34,70	45.07	34.90	57
58	46.32	34.91	46.17	35.11	46.01	35.31	45.86	35.51	58
59 <b>60</b>	47.12 47.92	35.51 36.11	46.96 47.76	35.71 36.32	46.81 47.60	35.92 36.53	46.65 47.44	36.12 36.73	59 60
61	48.72	36.71	48.56	36.92	48.39	37.13	48.23	37.35	61
62 63	49.52 50.31	37.31 37.91	49.35 50.15	37.53 38.13	49.19	37.74	49.02 49.81	37.96	62 63
64	51.11	38.52	50.13	38.74	50.77	38.96	50.60	39.18	64
65	51.91	39.12	51.74	39.34	51.57	39.57	51.39	39.79	65
66	52.71	39.72	52.54	39.95	52.36	40.18	52.19	40.41	66
67 68	53.51 54.31	40.32 40.92	53.33 54.13	40.55 41.16	53.15 53.95	40.79	52.98 53.77	41.63	67 68
69	55.11	41.53	54.92	41.77	54.74	42.00	54.56	42.24	69
70	55.90	42.13	55.72	42.37	55.53	42.61	55.35	42.86	70
71 72	56.70 57.50	42.73 43.33	56.52 57.31	42.98 43.58	56.33 57.12	43.22 43.83	56.14 56.93	43.47 44.08	71 72
73	58.30	43.93	58.11	44.19	57.91	44.44	57.72	44.69	73
74	59.10	44.53	58.90	44.79	58.71	45.05	58.51	45.30	74
75 76	59.90 60.70	45.14 45.74	59.70 60.50	45.40 46.00	59.50 60.29	45.66 46.27	59.30 60.09	45.92 46.53	75 76
77	61.49	46.34	61.29	46.61	61.09	46.87	60.88	47.14	77
78	62.29	46.94	62.09	47.21	61.88	47.48	61.67	47.75	78
79 80	63.09 63.89	47.54 48.15	62.88 63.68	47.82 48.42	62.67 63.47	48.09 48.70	62.46 63.26	48.37 48.98	79 80
81	64.69	48.75	64.48	49.03	64.26	49.31	64.05	49.59	81
82	65.49	49.35	65.27	49.63	65.05	49.92	64.84	50.20	82
83 84	66.29 67.09	49.95 50.55	66.86	50.24 50.84	65.85 66.64	50.53 51.14	65.63	50.81 51.43	83 84
85	67.88	51.15	67.66	51.45	67.43	51.74	67.21	52.04	85
86	68.68	51.76	68.46	52.06	68.23	52.35	68.00	52.65	86
87	69.48	52.36	69.25	52.66	69.02	52.96	68.79	53.26	87
88 89	70.28 71.08	52.96 53.56	70.05 70.84	53.27 53.87	69.82 70.61	53.57 54.18	69.58 70.37	53.88 54.49	88 89
90	71.88	54.16	71.64	54.48	71.40	54.79	71.16	55.10	90
91 92	72.68 73.47	54.77 55.37	72.44 73.23	55.08 55.69	72.20 72.99	55.40 56.01	71.95 72.74	55.71 56.32	91 92
93	74.27	55.97	74.03	56.29	73.78	56.61	73.53	56.94	93
94	75.07	56.57	74.82	56.90	74.58	57.22	74.32	57.55	94
95	75.87	57.17	75.62	57.50	75.37	57.83	75.12	58.16	95
96 97	76.67 77.47	57.77 58.38	76.42 77.21	58.11 58.71	76.16 76.96	58.44 59.05	75.91 76.70	58.77 59.39	96 97
98	78.27	58.98	78.01	59.32	77.75	59.66	77.49	60.00	98
99 1 <b>00</b>	79.06 79.86	59.58 60.18	78.80 79.60	59.92 60.53	78.54 79.34	60.27 60.88	78.28 79.07	60.61 61.22	99 100
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	
Distance.	53 I	Deg.	521		52½	Deg.	52 <del>1</del>	Deg.	Distance.

					· · · · · · · · · · · · · · · · · · ·				لاخودي
Distance.	38 ]	Deg.	381	Deg.	381	Deg.	381	Deg.	Distance
če.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Ç.
1 2	0.79 1.58	0.62 1.23	0.79 1.57	0.62 1.24	0.78 1.57	0.62 1.24	0.78 1.56	0.63 1.25	1 2 3
3	2.36 3.15	1.85	2.36	1.86	2.35	1.87	2.34	1.88	3 4
4 5	3.15	2.46 3.08	3.14 3.93	2.48 3.10	3.13 3.91	2.49 3.11	3.12 3.90	2.50 3.13	. 5
6	4.73	3.69	4.71	3.71	4.70	3.74	4.68	3.76	6
8	5.52 6.30	4.31 4.93	5.50 6.28	4.33 4.95	5.48 6.26	4.36 4.98	5.46 6.24	4.38 5.01	8
9	7.09	5.54	7.07	5.57	7.04	5.60	7.02	5.63	9
10	7.88 8.67	6.16	7.85 8.64	6.19	7.83	6.23	7.80 8.58	6.26	10
11 12	9.46	7.39	9.42	7.43	8.61 9.39	6.85 7.47	9.36	7.51	12
13	10.24	8.00	10.21	8.05	10.17	8.09	10.14	8.14	13
14 15	11.03 11.82	8.62 9.23	10.99 11.78	8.67 9.29	10.96 11.74	8.72 9.34	10.92 11.70	8.76 9.39	14 15
16	12.61	9.85	12.57	9.91	12.52	9.96	12.48	10.01	16
17 18	13.40 14.18	10.47 11.08	13.35 14.14	10.52 11.14	13.30 14.09	10.58 11.21	13.26 14.04	10.64 11.27	17 18
19	14.97	11.70	14.92	11.76	14.87	11.83	14.82	11.89	19
20	15.76	12.31	15.71	12.38	15.65	12.45	15.60	12.52	20
21 22	16.55 17.34	12.93 13.54	16.49 17.28	13.00 13.62	16.43 17.22	13.07 13.70	16.38 17.16	13.14 13.77	21 22
23	18.12	14.16	18.06	14.24	18.00	14.32	17.94	14.40	23
24	18.91	14.78	18.85	14.86	18.78	14.94	18.72	15.02	24
25 26	19.70 20.49	15.39 16.01	19.63 20.42	15.48 16.10	19.57 20.35	15.56 16.19	19.50 20.28	15.65 16.27	25 26
27	21.28	16.62	21.20	16.72	21.13	16.81	21.06	16.90	27
28 29	22.06 22.85	17.24 17.85	21.99 22.77	17.33 17.95	21.91 22.70	17.43 18.05	21.84 22.62	17.53 18.15	28 29
30	23.64	18.47	23.56	18.57	23.48	18.68	23.40	18.78	30
31 32	24.43 25.22	19.09 19.70	24.34 25.13	19.19 19.81	24.26 25.04	19.30 19.92	24.18 24.96	19.40 20.03	31 32
33	26.00	20.32	25.92	20.43	25.83	20.54	25.74	20.66	33
34 35	26.79 27.58	20.93 21.55	26.70 27.49	21.05 21.67	26.61 27.39	21.17	26.52 27.30	21.28 21.91	34 35
36	28.37	22.16	28.27	22.29	28.17	22.41	28.08	22.53	36
37	29.16	22.78	29.06	22.91	28.96	23.03	28.86	23.16	37 38
38 39	29.94 30.73	23.40 24.01	29.84 30.63	23.53 24.14	29.74 30.52	23.66 24.28	29.64 30.42	23.79 24.41	39
40	31.52	24.63	31.41	24.76	31.30	24.90	31.20	25.04	40
41	32.31 33.10	25.24 25.86	32.20 32.98	25.38 26.00	32.09 32.87	25.52 26.15	31.98 32.76	25.66 26.29	41 42
42 43	33.88	26.47	33.77	26.62	33.65	26.77	33.53	26.29	43
44	34.67	27.09	34.55	27.24	34.43	27.39	34.31	27.54	44
45 46	35.46 36.25	27.70 28,32	35.34 36.12	27.86	35.22 36.00	28.01 28.64	35.09 35.87	28.17 28.79	45 46
47	37.04	28.94	36.91	29.10	36.78	29.26	36. 65	29.42	47
48	37.82	29.55	37.70	29.72	37.57	29.88	37.43 38.21	30.04	48 49
49 50	38.61 39.40	30.17 30.78	38.48 39.27	30.34 30.95	38.35 39.13	30.50 31.13	38.99	30.67 31.30	50
ice.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ce.
Distance.	<b>52</b> ]	Deg.	51}	Deg.	511	Deg.	511	Deg.	Distance

Distance	<b>3</b> 8 I	)eg.	381 1	Deg.	38½ I	Deg.	38 <del>]</del> I	Deg.	Distance
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	è
51	40.19	31.40	40.05	31.57	39.91	31.75	39.77	31.92	51
52 53	40.98 41.76	32.01 32.63	40.84	32.19 32.81	40.70	32.37 32.99	40.55	32.55 33.17	52 53
54	42.55	33.25	42.41	33.43	42.26	33.62	42.11	33.80	54
55	43.34	33.86	43.19	34.05	43.04	34.24	42.89	34.43	65
56 57	44.13 44.92	34.48 35.09	43.98	34.67 35.29	43.83 44.61	34.86 35.48	43.67	35.05 35.68	56 57
58	45.70	35.71	45.55	35.29	45.39	36.11	45.23	36.30	58
59	46.49	36.32	46.33	36.53	46.17	36.73	46.01	36.93	59
60	47.28	36.94	47.12	37.15	46.96	37.35	46.79	37.56	60
61	48.07	37.56	47.90	37.76	47.74	37.97	47.57	38.18	61 62
62 63	48.86 49.64	38.17 38.79	48.69 49.47	38.38 39.00	48.52	38.60 39.22	48.35 49.13	38.81	63
64	50.43	39.40	50.26	39.62	50.09	39.84	49.91	40.06	64
65	51.22	40.02	51.05	40.24	50.87	40.46	50.69	40.68	65
66	52.01	40.63	51.83	40.86	51.65	41.09	51.47	41.31	66
67 68	52.80 53.58	41.25 41.86	52.62 53.40	41.48 42.10	52.43 53.22	41.71	52.25 53.03	41.94	68
69	54.37	42.48	54.19	42.72	54.00	42.95	53.81	43.19	69
70	55.16	43.10	54.97	43.34	54.78	43.58	54.59	43.81	70
71	55.95	43.71	55.76	43.96	55.57	44.20	55.37	44.44	71
72 73	56.74 57.52	44.33 44.94	56.54 57.33	44.57	56.35	44.82	56.15 56.93	45.07	72
74	58.31	45.56	58.11	45.19 45.81	57.13 57.91	45.44	57.71	45.69 46.32	74
75	59.10	46.17	58.90	46.43	58.70	46.69	58.49	46.94	75
76	59.89	46.79	59.68	47.05	59.48	47.31	59.27	47.57	76
77 78	60.68 61.46	47.41 48.02	60.47	47.67	60.26	47.93	60.05	48.20	77
79	62.25	48.64	61.25	48.29 48.91	61.04	48.56 49.18	60.83 61.61	49.45	79
80	63.04	49.25	62.83	49.53	62.61	49.80	62.39	50.07	80
81	63.83	49.87	63.61	50.15	63.39	50.42	63.17	50.70	81
82	64.62	50.48	64.40	50.77	64.17	51.05	63.95	51.33	82
83 84	65.40 66.19	51.10 51.72	65.18 65.97	51.38 52.00	64.96 65.74	51.67 52.29	64.73 65.51	51.95 52.58	83 84
85	66.98	52.33	66.75	52.62	66.52	52.23	66.29	53.20	85
86	67.77	52.95	67.54	53.24	67.30	53.54	67.07	53.83	86
87 88	68.56	53.56	68.32	53.86	68.09	54.16	67.85	54.46	87
89	69.34 70.13	54.18 54.79	69.11 69.89	54.48 55.10	68.87	54.78 55.40	68.63 69.41	55.08 55.71	88 89
90	70.92	55.41	70.68	55.72	70.43	56.03	70.19	56.33	90
91	71.71	56.03	71.46	56.34	71.22	56.65	70.97	56.96	91
92	72.50	56.64	72.25	56.96	72.00	57.27	71.75	57.58	92
93 94	73.28 74.07	57.26 57.87	73.03 73.82	57.58 58.19	72.78 73.57	57.89 58.52	72.53 73.31	58.21 58.84	93 94
95	74.86	58.49	74.61	58.81	74.35	59.14	74.09	59.46	95
96	75.65	59.10	75.39	59.43	75.13	59.76	74.87	60.09	96
97	76.44	59.72	76.18	60.05	75.91	60.38	75.65	60.71	97
98 99	77.22 78.01	60.33 60.95	76.96 77.75	60.67 61.29	76.70	61.01 61.63	76.43 77.21	61.34	98 99
100	78.80	61.57	78.53	61.29	78.26	62.25	77.99	62.59	100
JCe.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ice.
Distance.	5 <b>2</b> I	eg.	51‡ Deg.		51½ Deg.		511	Distance.	

Distance	38 ]	Deg.	38 <del>1</del>	Deg.	381	Deg.	384	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	mce.
1	0.79	0.62	0.79	0.62	0.78	0.62	0.78	0.63	1
2	1.58	1.23	1.57	1.24	1.57	1.24	1.56	1.25	2
3	2.36	1.85	2.36	1.86	2.35	1.87	2.34	1.88	2 3
4	3.15	2.46	3.14	2.48	3.13	2.49	.3.12	2.50	4
5	3.94	3.08	3.93	3.10	3.91	3.11	3.90	3.13	5
6	4.73	3.69	4.71	3.71	4.70	3.74	4.68	3.76	6
7	5.52	4.31	5.50	4.33	5.48	4.36	5.46	4.38	7
8	6.30	4.93	6.28	4.95	6.26	4.98	6.24	5.01	8
9	7.09	5.54	7.07	5.57	7.04	5.60	7.02	5.63	9
10	7.88	6.16	7.85	6.19	7.83	6.23	7.80	6.26	10
11	8.67	6.77	8.64	6.81	8.61	6.85	8.58	6.89	11
12	9.46	7.39	9.42	7.43	9.39	7.47	9.36	7.51	12
13	10.24	8.00	10.21	8.05	10.17	8.09	10.14	8.14	13
14	11.03	8.62	10.99	8.67	10.96	8.72	10.92	8.76	14
15	11.82	9.23	11.78	9.29	11.74	9.34	11.70	9.39	15
16	12.61	9.85	12.57	9.91	12.52	9.96	12.48	10.01	16
17	13.40	10.47	13.35	10.52	13.30	10.58	13.26	10.64	17
18	14.18	11.08	14.14	11.14	14.09	11.21	14.04	11.27	18
19 20	14.97 15.76	11.70 12.31	14.92 15.71	11.76 12.38	14.87 15.65	11.83 12.45	14.82	11.89 12.52	19 20
					_			_	
21	16.55	12.93	16.49	13.00	16.43	13.07	16.38	13.14	21
22	17.34	13.54	17.28	13.62	17.22	13.70	17.16	13.77	22
23 24	18.12 18.91	14.16 14.78	18.06 18.85	14.24	18.00 18.78	14.32	17.94	14.40	23
25	19.70	15.39	19.63	14.86 15.48	19.57	14.94 15.56	19.50	15.02 15.65	25
26	20.49	16.01	20.42	16.10	20.35	16.19	20.28	16.27	26
27	21.28	16.62	21.20	16.72	21.13	16.81	21.06	16.90	27
28	22.06	17.24	21.99	17.33	21.91	17.43	21.84	17.53	28
29	22.85	17.85	22.77	17.95	22.70	18.05	22.62	18.15	29
30	23.64	18.47	23.56	18.57	23.48	18.68	23.40	18.78	30
31	24.43	19.09	24.34	19.19	24.26	19.30	24.18	19.40	31
32	25.22	19.70	25.13	19.81	25.04	19.92	24.96	20.03	32
33	26.00	20.32	25.92	20.43	25.83	20.54	25.74	20.66	33
34	26.79	20.93	26.70	21.05	26.61	21.17	26.52	21.28	34
35	27.58	21.55	27.49	21.67	27.39	21.79	27.30	21.91	35
36	28.37	22.16	28.27	22.29	28.17	22.41	28.08	22.53	36
37	29.16	22.78	29.06	22.91	28.96	23.03	28.86	23.16	37
38 39	29.94 30.73	23.40	29.84	23.53	29.74	23.66	29.64	23.79	38
40	31.52	24.01 24.63	30.63 31.41	24.14 24.76	30.52	24.28 24.90	30.42	24.41 25.04	39
41	32.31	05 04	32.20	05 90	-	100 000 700		-	1 27
42	33.10	25.24 25.86	32.20	25.38 26.00	32.09 32.87	25.52 26.15	31.98 32.76	25.66	41
43	33.88	26.47	33.77	26.62	33.65	26.77	33.53	26.29	43
44	34.67	27.09	34.55	27.24	34.43	27.39	34.31	27.54	44
45	35.46	27.70	35.34	27.86	35.22	28.01	35.09	28.17	1
46	36.25	28,32	36.12	28.48	36.00	28.64	35.87	28.70	
47	37.04	28.94	36.91	29.10	36.78	29.26	36-65		
48	37.82	29.55	37.70	29.72	37.57	29.88	37		
49	38.61	30.17	38.48	30.34	38.35	30.50			- 1
50	39.40	30.78	39.27	30.95	39.13	31.13			
ace.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat			
Distance.	52 ]	Deg.	511	Deg.	511	Deg			

Dista	38 I	Deg.	381 1	Deg.	38½ I	Deg.	38¾ I	eg.	Distance.
Distance,	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
51	40.19	31.40	40.05	31.57	39.91	31.75	39.77	31.92	51
52	40.98	32.01	40.84	32.19	40.70	32.37	40.55	32.55	59
53	41.76	32.63	41.62	32.81	41.48	32.99	41.33	33.17	55
54	42.55	33.25	42.41	33.43	42.26	33.62	42.11	33.80	54
55	43.34	33.86	43.19	34.05	43.04	34.24	42.89	34.43	5.5
56	44.13	34.48	43.98	34.67	43.83	34.86	43.67	35.05	56
57	44.92	35.09	44.76	35.29	44.61	35.48	44.45	35.68	5
58	45.70	35.71	45.55	35.91	45.39	36.11	45.23	36.30	5
59 60	46.49 47.28	36.32 36.94	46.33	36.53 37.15	46.17	36.73	46.01 46.79	36.93 37.56	60
61	48.07	37.56	47.90	37.76	47.74	37.97	47.57	38.18	6
62	48.86	38.17	48.69	38.38	48.52	38.60	48.35	38.81	6
63	49.64	38.79	49.47	39.00	49.30	39.22	49.13	39.43	6
64	50.43	39.40	50.26	39.62	50.09	39.84	49.91	40.06	6
65	51.22	40.02	51.05	40.24	50.87	40.46	50.69	40.68	6.
66	52.01	40.63	51.83	40.86	51.65	41.09	51.47	41.31	6
67	52.80	41.25	52.62	41.48	52.43	41.71	52.25	41.94	6
68 69	53.58	41.86	53.40	42.10	53.22 54.00	42.33	53.03	42.56	6
70	54.37 55.16	42.48 43.10	54.19	43.34	54.78	43.58	54.59	43.19	7
71	55.95	43.71	55.76	43.96	55.57	44.20	55.37	44.44	7
72	56.74	44.33	56.54	44.57	56.35	44.82	56.15	45.07	7
73	57.52	44.94	57.33	45.19	57.13	45.44	56.93	45.69	7:
74	58.31	45.56	58.11	45.81	57.91	46.07	57.71	46.32	7.
75	59.10	46.17	58.90	46.43	58.70	46.69	58.49	46.94	7
76 77	59.89 60.68	46.79	59.68	47.05	59.48	47.31	59.27 60.05	47.57	7
78	61.46	47.41	60.47	48.29	60.26	47.93	60.83	48.20	7
79	62.25	48.64	62.04	48.91	61.83	49.18	61.61	49.45	7
80	63.04	49.25	62.83	49.53	62.61	49.80	62.39	50.07	8
81	63.83	49.87	63.61	50.15	63.39	50.42	63.17	50.70	8
82	64.62	50,48	64.40	50.77	64.17	51.05	63.95	51.33	85
83	65.40	51.10	65.18	51.38	64.96	51.67	64.73	51.95	8
84	66.19	51.72	65.97	52.00	65.74	52.29	65.51	52.58	8
85	66.98	52.33	66.75	52.62	66.52	52,91	66.29	53.20	8
86	67.77	52.95	67.54	53.24	67.30	53.54	67.07	53.83	80
87 88	68.56	53.56	68.32	53.86	68.09	54.16	67.85	54.46	8
89	69.34 70.13	54.18	69.11	54.48	68.87	54.78	68.63	55.08 55.71	88
90	70.92	55.41	70.68	55.72	69.65 70.43	55.40 56.03	70.19	56.33	96
91	71.71	56.03	71.46	56.34	71.22	56.65	70.97	56.96	9
92	72.50	56.64	72.25	56.96	72.00	57.27	71.75	57.58	99
01	78 MI	57.26	73.03	57.58	72.78	57.89	72.53	58.21	9:
		~7_87	73.82	58.19	73.57	58.52	73.31	58.84	94
115		10	74.61	58.81	74.35	59.14	74.09	59.46	98
			75.39	59.43	75.13	59.76	74.87	60.09	96
			76.18	60.05	75.91	60.38	75.65	60.71	98
			7	71.29	76.70	61.63	76.43	61.34	99
				91	78.26	62.25	77.99	62.59	100
		-al-		110	Dep.	Lat.	Dep.	Lat.	ice.
	4	Des	-	A	513	Deg.	514	Deg.	Distance.

Google

Distance	<u> </u>	Deg.		Deg.	381			Deg.	Distance
ě	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	è
1	0.79	0.62	0.79	0.62	0.78	0.62	0.78	0.63	1
2	1.58	1.23	1.57	1.24	1.57	1.24	1.56	1.25 1.88	2 3
3 4	2.36 3.15	1.85 2.46	2.36 3.14	1.86 2.48	2.35 3.13	2.49	2.34 3.12	2.50	4
5	3.94	3.08	3.93	3.10	3.91	3.11	3.90	3.13	5
67	4.73 5.52	3.69 4.31	4.71 5.50	3.71 4.33	4.70 5.48	3.74 4.36	4.68 5.46	3.76 4.38	6
8	6.30	4.93	6.28	4.95	6.26	4.98	6.24	5.01	8
9	7.09	5.54	7.07	5.57	7.04	5.60	7.02	5.63	9
10	7.88	6.16	7.85	6.19	7.83	6.23	7.80	6.26	10
11 12	8.67 9.46	6.77 7.39	8.64 9.42	6.81 7.43	8.61 9.39	6.85 7.47	8.58 9.36	6.89 7.51	11 12
13	10.24	8.00	10.21	8.05	10.17	8.09	10.14	8.14	13
14	11.03	8.62	10.99	8.67	10.96	8.72	10.92	8.76	14
15 16	11.82	9.23 9.85	11.78 12.57	9.29 9.91	11.74	9.34 9.96	11.70 12.48	9.39 10.01	15 16
17	13.40	10.47	13.35	10.52	13.30	10.58	13.26	10.64	17
18 19	14.18	11.08 11.70	14.14 14.92	11.14 11.76	14.09 14.87	11.21 11.83	14.04 14.82	11.27	18 19
20	15.76	12.31	15.71	12.38	15.65	12.45	15.60	12.52	20
21	16.55	12.93	16.49	13.00	16.43	13.07	16.38	13.14	21
22 23	17.34 18.12	13.54 14.16	17.28	13.62 14.24	17.22 18.00	13.70 14.32	17.16 17.94	13.77	22
23	18.91	14.78	18.85	14.86	18.78	14.32	18.72	15.02	24
25	19.70	15.39	19.63	15.48	19.57	15.56	19.50	15.65	25
26 27	20.49	16.01 16.62	20.42 21.20	16.10 16.72	20.35 21.13	16.19 16.81	20.28 21.06	16.27 16.90	26 27
28	22.06	17.24	21.99	17.33	21.91	17.43	21.84	17.53	28
29	22.85	17.85	22.77	17.95	22.70	18.05	22.62	18.15	29
30	23.64	18.47	23.56	18.57	23.48	18.68	23.40	18.78	30
31	24.43	19.09	24.34	19.19	24.26	19.30 19.92	24.18 24.96	19.40 20.03	31 32
32	25.22	19.70 20.32	25.13 25.92	19.81 20.43	25.04 25.83	20.54	25.74	20.66	33
34	26.79	20.93	26.70	21.05	26.61	21.17	26.52	21.28	34
35 36	27.58 28.37	21.55 22.16	27.49 28.27	21.67	27.39 28.17	21.79	27.30 28.08	21.91 22.53	35 36
37	29.16	22.78	29.06	22.91	28.96	23.03	28.86	23.16	37
38	29.94	23.40	29.84	23.53	29.74	23.66	29.64	23.79	38
39 40	30.73 31.52	24.01 24.63	30.63 31.41	24.14 24.76	30.52 31.30	24.28 24.90	30.42 31.20	24.41 25.04	39 40
41	32.31	25.24	32.20	25.38	32.09	25.52	31.98	25.66	41
42	33.10	25.86	32.98	26.00	32.87	26.15	32.76	26.29	42
43 44	33.88	26.47 27.09	33.77 34.55	26.62 27.24	33.65 34.43	26.77	33.53 34.31	26.91 27.54	43 44
45	35.46	27.70	35.34	27.86	35.22	28.01	35.09	28.17	45
46	36.25	28,32	36.12	28.48	36.00	28.64	35.87	28.79	46
47 48	37.04	28.94	36.91 37.70	29.10 29.72	36.78 37.57	29.26	36. 65 37.43	29.42 30.04	47 48
49	38.61	30.17	38.48	30.34	38.35	30.50	38.21	30.67	49
50	39.40	30.78	39.27	30.95	39.13	31.13	38.99	31.30	50
ice.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	52	Deg.	512	Deg.	511	Deg.	511	Deg.	Distance.
	1		H .		<u>r                                      </u>		11		4

Distance	38 I	Oeg.	381 1	Deg.	38 <u>1</u> I	eg.	38‡ I	Oeg.	Distance
nce.	Let.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Ç.
51	40.19 40.98	31.40 32.01	40.05 40.84	31.57 32.19	39.91 40.70	31.75 32.37	39.77 40.55	31.92 32.55	51 52
52 53	41.76	32.63	41.62	32.81	41.48	32.99	41.33	33.17	53
54	42.55	33.25	42.41	33.43	42.26	33.62	42.11	33.80	54
55	43.34	33.86	43.19	34.05	43.04	34.24	42.89	34.43	65
56	44.13	34.48	43.98	34.67	43.83	34.86	43.67	35.05	56
57	44.92	35.09	44.76	35.29	44.61	35.48	44.45	35.68	57
58	45.70	35.71	45.55	35.91	45.39	36.11	45.23	36.30	58
59 <b>60</b>	46.49 47.28	36.32 36.94	46.33 47.12	36.53 37.15	46.17 46.96	36.73 37.35	46.79	36.93 37.56	60
61	48.07	37.56	47.90	37.76	47.74	37.97	47.57	38.18	61
62	48.86	38.17	48.69	38.38	48.52	38.60	48.35	38.81	62
63 64	49.64 50.43	38.79 39.40	49.47 50.26	39.00 39.62	49.30 50.09	39.22 39.84	49.13 49.91	39.43 40.06	63 64
65	51.22	40.02	51.05	40.24	50.09	40.46	50.69	40.68	65
66	52.01	40.63	51.83	40.86	51.65	41.09	51.47	41.31	66
67	52.80	41.25	52.62	41.48	52.43	41.71	52.25	41.94	67
68	53.58	41.86	53.40	42.10	53.22	42.33	53.03	42.56	68
69 70	54.37 55.16	42.48 43.10	54.19 54.97	42.72 43.34	54.00 54.78	42.95 43.58	53.81 54.59	43.19	69 70
71	55.95	43.71	55.76	43.96		44.20	55.37	44.44	71
72	56.74	44.33	56.54	44.57	55.57	44.82	56.15	45.07	72
73	57.52	44.94	57.33	45.19	57.13	45.44	56.93	45.69	73
74	58.31	45.56	58.11	45.81	57.91	46.07	57.71	46.32	74
75	59.10	46.17	58.90	46.43	58.70	46 69	58.49	46.94	75
76	59.89	46.79	59.68	47.05	59.48	47.31	59.27	47.57	76
77	60.68	47.41	60.47	47.67	60.26	47.93	60.05	48.20	77
78 79	61.46 62.25	48.02 48.64	61.25	48.29 48.91	61.04	48.56 49.18	60.83	48.82	79
80	63.04	49.25	62.83	49.53	62.61	49.80	62.39	50.07	80
81	63.83	49.87	63.61	50.15	63.39	50.42	63.17	50.70	81
82	64.62	50.48	64.40	50.77	64.17	51.05	63.95	51.33	82
83	65.40	51.10	65.18	51.38	64.96	51.67	64.73	51.95	83
84	66.19	51.72	65.97	52.00	65.74	52.29	65.51	52.58	84
85 86	66.98 67.77	52.33 52.95	66.75 67.54	52.62 53.24	66.52	52.91 53.54	66.29 67.07	53.20 53.83	85 86
87	68.56	53.56	68.32	53.86	68.09	54.16	67.85	54.46	87
88	69.34	54.18	69.11	54.48	68.87	54.78	68.63	55.08	88
89	70.13	54.79	69.89	55.10	69.65	55.40	69.41	55.71	89
90	70.92	55.41	70.68	55.72	70.43	56.03	70.19	56.33	90
91	71.71	56.03	71.46	56.34	71.22	56.65	70.97	56.96	91
92	72.50	56.64	72.25	56.96	72.00	57.27	71.75	57.58	92
93	73.28	57.26	73.03	57.58	72.78	57.89	72.53	58.21	93
94 95	74.07 74.86	57.87 58.49	73.82 74.61	58.19 58.81	73.57	58.52	73.31 74.09	58.84 59.46	94 95
96	75.65	59.10	75.39	59.43	74.35 75.13	59.14 59.76	74.87	60.09	96
97	76.44	59.72	76.18	60.05	75.91	60.38	75.65	60.71	97
98	77.22	60.33	76.96	60.67	76.70	61.01	76.43	61.34	98
99	78.01	60.95	77.75	61.29	77.48	61.63	77.21	61.97	99
100	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep. Lat.		nce.
Distance	5 <b>2</b> I	Deg.	512	Deg.	51 <del>1</del>	Deg.	511	Deg.	Distance.

U	T	D.	90.	<u> </u>	90:	<b>D</b> .	90.	~	۵
Distance.	39	Deg.	394	Deg.	394	Deg.	394	Deg.	Distance.
è	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	<u>.</u>
1 2	0.78 1.55	0.63 1.26	0.77 1.55	0.63 1.27	0.77 1.54	0.64 1.27	0.77 1.54	0.64 1.28	9
3	2.33	1.89	2.32	1.90	2.31	1.91	2.31	1.92	3
4	3.11	2.52	3.10	2.53	3.09	2.54	3.08	2.56	4
5 6	3.89 4.66	3.15 3.78	3.87 4.65	3.16 3.80	3.86 4.63	3.18 3.82	3.84 4.61	3.20	5 6
7	5.44	4.41	5.42	4.43	5.40	4.45	5.38	4.48	7
8	6.22	5.03	6.20	5.06	6.17	5.09	6.15	5.12	
9 10	6.99 7.77	5.66 6.29	6.97 7.74	5.69 6.33	6.94 7.72	5.72 6.36	6.92 7.69	5.75 6.39	10
11	8.55	6.92	8.52	6.96	8.49	7.00	8.46	7.03	11
12	9.33	7.55 8.18	9.29	7.59	9.26	7.63	9.23	7.67	12
13 14	10.10 10.88	8.81	10.07 10.84	8.23 8.86	10.03 10.80	8.27	9.99	8.31 8.95	13
15	11.66	9.44	11.62	9.49	11.57	9.54	11.53	9.59	15
16	12.43 13.21	10.07 10.70	12.39 13.16	10.12 10.76	12.35 13.12	10.18	12.30 13.07	10.23	16 17
17 18	13.21	11.33	13.16	11.39	13.12	10.81 11.45	13.07	11.51	18
19	14.77	11.96	14.71	12.02	14.66	12.09	14.61	12.15	19
20	15.54	12.59	15.49	12.65	15.43	12.72	15.38	12.79	20
21 22	16.32 17.10	13.22 13.84	16.26 17.04	13.29 13.92	16.20 16.98	13.36 13.99	16.15 16.91	13.43 14.07	21 22
23	17.87	14.47	17.81	14.55	17.75	14.63	17.68	14.71	23
24	18.65	15.10	18.59	15.18	18.52	15.27	18.45	15.35	24
25 26	19.43 29.21	15.73 16.36	19.36 20.13	15.82 16.45	19.29 20.06	15.90 16.54	19.22 19.99	15.99 16.63	25 26
27	20.98	16-99	20.91	17.08	20.83	17.17	20.76	17.26	27
28	21.76	17.62	21.68	17.72	21.61	17.81	21.53	17.90	28
29 30	22.54 23.31	18.25 18.88	22.46 23.23	18.35 18.98	22.38 23.15	18.45 19.08	22.30 23.07	18.54 19.18	29 30
31	24.09	19.51	24.01	19.61	23.92	19.72	23.83	19.82	31
32	24.87	20.14	24.78	20.25	24.69	20.35	24.60	20.46	32
33 34	25.65 26.42	20.77 21.40	25.55 26.33	20.88 21.51	25.46 26.24	20.99 21.63	25.37 26.14	21.10 21.74	33 34
35	27.20	22.03	27.10	22.14	27.01	22.26	26.91	22.38	35
36	27.98	22.66	27.88	22.78	27.78	22.90	27.68	23.02	36
37 38	28.75 29.53	23.28 23.91	28.65 29.43	23.41 24.04	28.55 29.32	23.53 24.17	28.45 29.22	23.66 24.30	37 38
39	30.31	24.54	30.20	24.68	30.09	24.81	29.98	24.94	39
40	31.09	25.17	30.98	25.31	30.86	25.44	30.75	25.58	40
41 42	31.86 32.64	25.80 26.43	31.75 32.52	25.94 26.57	31.64	26.08 26.72	31.52 32.29	26.22 26.86	41 42
43	33.42	27.06	33.30	27.21	32.41 33.18	27.35	33.06	27.50	43
44	34.19	27.69	34.07	27.84	33.95	27.99	33.83	28.14	44
45	34.97 35.75	28.32	34.85	28.47	34.72	28.62	34.60 35.37	28.77	45 46
46 47	36.53	28.95 29.58	35.62 36.40	29.10 29.74	35.49 36.27	29.26 29.90	36.14	29.41 30.05	47
48	37.30	30.21	37.17	30.37	37.04	30.53	36.90	30.69	48
49 50	38.08 38.86	30.84 31.47	37.95 38.72	31.00 31.64	37.81 38.58	31.17 31.80	37.67 38.44	31.33 31.97	49 50
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ė
Distance.	51 I		501		501		501		Distance.

بضر						-			
Distance	• 39 ]	Deg.	391	Deg	391	Deg.	391	Deg.	Distance
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ŝ
.51	39.63	32.10	39.49	32.27	39.35	32.44	39.21	32.61 33.25	51
52 53	40.41 41.19	32.72 33.35	40.27	32.90 33.53	40.12	33.08 33.71	39.98 40.75	33.25	52 53
54	41.97	33.98	41.82	34.17	41.67	34.35	41.52	34.53	54
55	42.74	34.61	42.59	34.80	42.44	34.98	42.29	35.17	55
56	43.52	35.24	43.37	35.43	43.21	35.62	43.06	35.81	56
57	44.30	35.87	44.14	36.06	43.98	36.26	43.82	36.45	57
58	45.07	36.50	44.91	36.70	44.75	36.89	44.59	37.09	58
59 60	45.85 46.63	37.13 37.76	45.69 46.46	37.33 37.96	45.53 46.30	37.53 38.16	45.36 46.13	37.73 38.37	59 60
61	47.41	38.39	47.24	38.60	47.07	38.80	46.90	39.01	61
62	43.18	39.02	48.01	39.23	47.84	39.44	47.67	39.65	62
63 64	48.96 49.74	39.65 40.28	48.79 49.56	39.86 40.49	48.61	40.07	48.44 49.21	40.28	63 64
65	50.51	40.28	50.34	41.13	49.38 50.16	41.35	49.21	41.56	65
66	51.29	41.54	51.11	41.76	50.93	41.98	50.74	42.20	66
67	52.07	42.16	51.88	42.39	51.70	42.62	51.51	42.24	67
68	52.85	42.79	52.66	43.02	52.47	43.25	52.28	43.48	€8
69	53.92	43.42	53.43	43.66	53.24	43.89	53.05	44.12	69
70	54.40	44.05	54.21	44.29	54.01	44.53	53.82	44.76	70
71	55.18	44.68	54.98	44.92	54.79	45.16	54.59	45.40	71
72 73	55.95 56.73	45.31 45.94	55.76 56.53	45.55 46.19	55.56 56.33	45.80 46.43	55.36 56.13	46.04	72 73
74	57.51	46.57	57.31	46.82	57.10	47.07	56.89	46.68	74
75	58.29	47.20	58.08	47.45	57.87	47.71	57.66	47.96	75
76	59.06	47.83	58.85	48.09	58.64	48.34	58.43	48.60	76
77	59.84	48.46	59.63	48.72	59.42	48.98	59.20	49.24	77
78	60.62	49.09	60.40	49.35	60.19	49.61	59.97	49.88	78
79 8 <b>0</b>	61.39 62.17	49.72 50.35	61.18	49.98 5 <b>0</b> .62	60.96 61.73	50.25 50.89	60.74 61.51	50.52	79 80
81	62.95	50.97	62.73	51.25	62.50	51.52	62.28	51.79	81
82	63.73	.51.60	63.50	51.88	63.27	52.16	63.04	52.43	82
83	6 50	52.23	64.27	52,51	64.04	52.79	63.81	53.07	88
.84 85	65.28	52.86	65.05	53.15	64.82	53.43	64.58	53.71	84 85
86	66.06 66.83	53.49 54.12	65.82 66.60	53.78 54.41	65.59	54.07 54.70	65.35	54.35 54.99	86
87	67.61	54.75	67.37	55.05	67.13	55.34	66.89	55.63	.87
88	68.39	55.38	68.15	55.68	67.90	55.97	67.66	56.27	88
89	69.17	56.01	68.92	56.32	68.67	56.61	68.43	56.91	89
90	69.94	56.64	69.70	56.94	69.45	57.25	69.20	57.5 <b>5</b>	90
91	70.72	57.27	70.47	57.58	70.22	57.88	69.96	58.19	91
92	71.50	57.90	71.24	58,21	70.99	58.52	70.73	58.83	92
93	72.27	58.53	72.02	58+84	71.76	.59.16	71.50	59.47	93
94 95	73.05 73.83	59.16 59.79	72.79 73.57	59.47 60.11	72.53 73.30	59.79 60.43	72.27 73.04	60.11	94 95
96	74.61	60.41	74.34	60.74	74.08	61.06	73.81	61.39	96
97	75.38	61.04	75.12	61.37	74.85	61.70	74.58	62.03	97
98	76.16	61.67	75.89	62.01	75.62	62.34	75.35	62.66	98
99 100	76.94 77.71	62.30 62.93	76.66 77.44	62.64 63.27	76.39 77.16	62.97 63.61	76.12 76.88	63.30 63.94	99 100
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	-
Distance	51· I	Dag.	501	Des:	50 <u>1</u>	Deg.	501	Deg.	Distance.
A	J1 I	-6.	304	5.	309	~eg.	304	~6.	Ä

D.	40 ]	Deg.	401	Deg.	401	Deg.	403	Deg.	D
Distance.									Distance
œ.	• Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
1	0.77	0.64	0.76	0.65	0.76	0.65	0.76	0.65	1
2	1.53	1.29	1.53	1.29	1.52	1.30	1.52	1.31	2
. 3	2.30 3.06	1.93 2.57	2.29 3.05	1.94 2.58	2.28 3.04	1.95 2.60	2.27 3.03	1.96 2.61	3
4 5	3.83	3.21	3.82	3.23	3.80	3.25	3.79	3.26	5
6	4.60	3.86	4.58	3.88	4.56	3.90	4.55	3.92	6
7	5.36	4.50	5:34	4.52	5.32	4.55	5.30	4.57	7
8	6.13	5.14	6.11	5.17	6.08	5.20	6.06	5.22	8
9 10	6.89 7.66	5.79 6.43	6.87 7.63	5.82 6.46	6.84 7.60	5.84 6.49	6.82 7.58	5.87 6.53	9 10
11	8.43	7.07	8.40	7.11	8.36	7.14	8.33	7.18	11 .
12 13	9.19 9.96	7.71 8.36	9.16	7.75 8.40	9.12	7.79 8.44	9.09 9.85	7.83 8.49	12
13	10.72	9.00	10.69	9.05	10.65	9.09	10.61	9.14	14
15	11.49	9.64	11.45	9.69	11.41	9.74	11.36	9.79	15.
16	12.26	10.28	12.21	10.34	12.17	10.39	12.12	10.44	16
17	13.02 13.79	10.93	12.97 13.74	10.98 11.63	12.93	11.04	12.88	11.10	17
1 <b>8</b> 19	14.55	11:57 12:21	14.50	12.28	13.69 14.45	11.69 12.34	13.64 14.39	11.75 1 <b>9.</b> 40	18 19
20	15.32	12.86	15.26	12.92	15.21	12.99	15.15	13.06	20
21 22	16.09 16.85	13.50 14.14	16.03 16.79	13.57 14.21	15.97 16.73	13.64 14.29	15.91 16.67	13.71 14.36	21 22
23	17.62	14.78	17.55	14.86	17.49	14.94	17.42	15.01	23
24	18.39	15.43	18.32	15.51	18.25	15.59	18.18	15.67	24
25	19.15	16.07	19.08	16.15	19.01	16.24	18.94	16.32	25
26	19.92	16.71	19.84	16.80	19.77	16.89	19.70	16.97	26
27 28	20.68 21.45	17.36 18.00	20.61 21.37	17.45 18.09	20.53 21.29	17.54 18.18 •	20.45 21.21	17.62 18.28	27 28
29	22.22	18.64	22.13	18.74	22.05	18.83	21.97	18.93	29
30	22.98	19.28	22.90	19.38	22.81	19.48	. 22.73	19.58	30
31	23.75	19.93	23.66	20.03	23.57	20.13	23.48	20.24	31
32	24.51	20.57	24.42	20.68	24.33	20.78	24.24	20.89	32
33 34	25.28 26.05	21.21 21.85	25.19 25.95	21.32 21.97	25.09 25.85	21.43 22.08	25.00 25.76	21.44 22.19	33 34
35	26.81	22.50	26.71	22.61	26.61	22.73	26.51	22.85	35
36	27.58	23.14	27.48	23.26	27.37	23.38	27.27	23,50	36 37
37	28.34	23.78	28.24	23.91	28.13	24.03	28.03	24.15	
38 39	29.11	24.43	29.00	24.55	28.90	24.68	28.79	24.80	38
40	29.88 30.64	25.07 25.71	29.77 30.53	25.20 25.84	29.66 30.42	25.33 25.98	29.54 30.30	25.46 26.11	39 40
41	31.41	26.35	31.29	26.49	31.18	26.63	31.06	26.76	41
42	32.17	27.00	32.06	27.14	31.94	27.28	31.82	27.42	42
43	32.94	27.64	32.82	27.78	32.70	27.93	32.58	28.07	43
44 45	33.71*	28.28	33.58	28.43	33.46	28.58	33.33	28.72	44
46	34.47 35.24	28.93 29.57	34.35 35.11	29.08 29.72	34.22 34.98	29.23 29.87	34.09 34.85	29.37 30.03	45 46
	36.00	30.21	35.87	30.37	35.74	30.52	35.61	30.68	47
48	36.77	30.85	36.64	31.01	36.50	31.17	36.36	31.33	48
49 50	37.54 38. <b>30</b>	31.50 32.14	37.40 38.16	31.66 32:31	37.26 38.02	31.82 -32.47	37.12 37.88	31.99 ,32.64	49 50
8	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	ej.
Distance.	50 1	Çeg.	491	Deg.	493	Deg.	491	Deg.	Distance.



					*		•			
	Distance	40 Î	eg.	46₁ I	eg.	40⅓ I	eg.	40 <b>∤</b> I	eg.	Distance
۱	nce.	Lat.	Dep.	Ļat.	Dep. `	Lat.	Dep.	Lat.	Dep.	Se
۱	51	39.07	32.78 33.42	38.92 39.69	32.95 33.60	38.78 39.54	33.12 33.77	38.64 39.39	33.29 33.94	51 52
ı	52 53	39.83 40.60	34.07	40.45	34.24	40.30	34.42	40.15	34.60	53
ł	54	41.37	34.71	41.21	34.89	41.06	35.07	40.91	35.25	54
ı	55	42.13	35.35		35.54	41.82	35.72	41.67	35.90	55
ł	56	42.90	36.00	42.74	36.18	42.58	36.37	42.42	36.55	· 56
ł	57	43.66	36.64	43.50	36.83	43.34	37.02	43.18	37.21	57
l	58	44.43	37.28	44.27	37.48	44.10	37.67	43.94	37.86	58
ı	59	45.20	37:92	45.03	38.12	44.86	38.32	44.70	38.51	59
١	60	45.96	38.57	45.79	38.77	45.62	38.97	45.45	39.17	60
I	61 62	46.73 47.49	39.21 39.85	46.56 47.32	39.41 40.06	46.38 47.15	39.62 40.27	46.21 46.97	39.82 40.47	61 62
	63	48.26	40.50	48.08	40.71	47.91	40.92	47.73	41.12	63
1	64	49.03	41.14	48.85	41.35	48.67	41,56	48.48	41.78	64
	65	49.79	41.78	49.61	42.00	49.43	42.21	49.24	42.43	65
	66	50.56	42.42	50.37	42.64	50.19	42.76	50.00	43.08	66
	67	51.32	43.07	51.14	43.29	50.95	43.51	50.76	43.73	67
1	68	52.09	43.71	51.90	43.94	51.71	44.16	51.51	44.39	68
1	69	52.86	44.35	52.66	.44.58	52.47	44.81	52.27	45.04	69 70
-	70	53.62	45.00	53.43	45.23	•53.23	45.46	53.03	45.69	$\vdash$
ł	71	54.39	45.64	54.19	45.87	53.99	46.11	53.79	46.35	71
1	72	55.16	46.28	54.95	46.52	54.75	46.76	54.54	47.00	72
ł	73	55.92	46.92	55.72	47.17	55.51	47.41	55.30 56.06	47.65	73 74
1	74 75	56.69 57.45	47.57	56.48 57.24	47.81	56.27 57.03	48.06	56.82	48.96	75
٠	76	58.22	48.85	58.01	49.11	57.79	49.36	57.57	49.61	76
1	77	58.99	49.49	58.77	*49.75	58.55	50.01	58.33	50.26	77
1	78	59.75	50.14	59.53	50.40	59.31	50.66	59.09	.50.92	78
1	79	60.52	50:78	60.30	51.04	60.07	51.31	59.85	51.57	79
1	80	61.28	51.42	61.06	51.69	60.83	51.96	60.61	52.22	80
1	81	62.05	52.07	61.82	52.34	61.59	52.61	61.36	52.87	81
١.	82	62.82	52.71	62.59	52.98	62.35	53.25	62.12	53.53	82
1	83	63.58	53.35	63.35	53.63	63.11	53.90	62.88	54.18	83
1	84	64.35	53.99	64.11	54.27	63.87	54.55	63.64	54.83	84
	85 86	65.11 65.88	54.64 55.28	65.64	54.92 55.57	64.63 65.39	55.20	64.39 65.15	55.48	86
1	87	66.65	55.92	66.40	56.21	66.16	56.50	65.91	56.79	87
	88	67.41	56.57	67.16	56.86	66.92	57.15	66.67	57.44	88
	.89	68.18	57.21	67.93	57.50	67.68	57.80	67.42	58.10	89-
	90	68.94	57.85	68.69	58.15	68.44	58.45	68.16	58.75	90
1	91	69.71	58.49	69.45	58.80	69.20	59.10	68.94	59.40	91
	92	70.48	59.14	70.22	59 44	69.96	59.75	69.70	60.05	92
1	93	71.24	59.78	70.98	60.09	70.72	60.40	70.45	60.71	93
1	94	72.01	60.42	71.74	60.74	71.48	61.05	71.21	61.36	94
	95	72.77	61.06	72.51 73.27	61.38	72.24	61.70	71.97	62.01	951
J	96	73.54	61.71		62.03	73.00	62.35	72.73	62.66	96
	97	74.31	62.35	74.03	63.32	73.76 74.52	63.65	73.48 74.24	63.32	97 98
1	99	75.84	63.64	75.56	63.97	75.28	64.30	75.00	64.62	99
	100	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	100
	ice.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
	Distance	50 1	Deg.	493	Deg.	491	Deg.	49	Deg.	Distance.
		1	Ŭ <b>⊕</b>		-					

							•		
Distance	41	Deg.	411	Deg.	. 414	Deg.	41	Deg.	Distance
Ģ.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
·1	0.75	0.66	0.75	0.66	0.75	0.66	0.75	0.67	1
2	1.51	1.31	1.50	1.32	1.50	1.33	1.49	1.33	2
3	2.26	1.97	2.26	1.98	2.25	1.99	2.24	2.00	3
4	3.02	2.62	3.01	2.64	3.00	2.65	2.98	2.66	4
5	3.77	3.28	3.76	3.30	3.74	3.31	3.73	3.33	5
6	4.53	3.94	4.51	3.96	4.49	3.98	4.48	4.00	6
. 7	5.28	4.59	5.26	4.62	5.24	4.64	5.22	4.66	7
8	6.04	5.25	6.01	5.27	5.99	5.30	5.97	5.33	8
9	6.79	5.90	6.77	5.93	6.74	5.96	6:71	5.99	9
10	7.55	6.56	7.52	6.59	7.49	6.63	7.46	6.66	10
11	8.30	7.22	8.27	7.25	8.24	7.29	8.21	7.32	11
12	9.06	7.87	9.02	7.91	8.99	7.95	8.95	7.99	12
13	9.81	8.53	9.77	8.57	9.74	8.61	9.70	8.66	13
14	10.57	9.18	10.53	9.23	10.49	9.28	10.44	9.32	14
15	11.32	9.84	11.28	9.89	11.23	9.94	11.19	9.99	15
16	12.08	10.50	12.03	10.55	11.98	.10.60	11.94	10.65	16
17	12.83	11.15	12.78	11.21	12.73	11.26	12.68	11.32	17
18	13.58	11.81	13.53	11.87	13.48	11.93	13.43	11.99	18
19	14.34	12.47	14.28	12.53	14.23	12.59	14.18	12.65	19
20	15.09	13.12	15.04	13.19	14.98	13.25	14.92	13.32	<b>2</b> 0
21	15.85	13.78	15.79	13.85	15.73	13.91	15.67	13.98	21
22	16.60	14.43	16.54	14.51	16.48	14.58	16.41	14.65	22
23	17.36	15.09	17.29	15.16	17.23	15.24	17.16	15.32	23
24	18.11	15.75	18.04	15.82	17.97	15.90	17.91	15.98	24
25	18.87	16.40	18.80	16.48	18.72	16.57	13.65	16.65	25
26	19.62	17.06	19.55	17.14	19.47	17.23	19.40	17.31	26
27	20.38	17.71	20.30	17.80	20.22	17.89	20.14	17.98	27
28	21.13	18.37	21.05	18.46	20.97	18.55	20.89	18.64	28
29	21.89	19.03	21.80	19.12	21.72	19.22	21.64	.19.31	29
30	22.64	19.68	22.56	19.78	22.47	19.88	22.38	19.98	30
31	23.40	20.34.	23.31	20.44	23.22	20.54	23.13	20.64	31
32	24.15	20.99	24.06	21.10	23.97	21.20	23.87	21.31	32
33	24.91	21.65	24.81	21.76	24.72	21.87	24.62	21.97	33
34	25.66	22.31	25.56	22.42	25.46	22.53	25.37	22.64	34
35	26.41	22.96	26.31	23.08	26.21	23.19	26.11	23.31	35
36	27.17	23.62	27.07	23.74	26.96	23.85	26.86	23.97	36
37	27.92	24.27	27.82	24.40	27.71	24.52	27.60	24.64	37
38	28.68	24.93	28.57	25.06	28.46	25.18	28.35	25.30	38
39	29.43	25.59	29.32	25.71	29.21	25.84	29.10	25.97	39
<b>40</b>	30.19	26.24	30.07	•26.37	29.96	26.50	29.84	26.64	40
41	30.94	26.90	30.83	27.03	30.71	27.17	30.59	27.30	41
42	31.70	27.55	31.58	27.69	31. <b>4</b> 6	27.83	31.33	27.97	42
43	32.45	28.21	32.33	28.35	32.21	28.49	32.08	28.63	43
44	33.21	28.87	33.08	29.01	32.95	29.16	32.83	29.30	44
45	33.96	29.52	33.83	29.67	33.70	29.82	33.57	29.97.	45
46	34.72	30.18	34.58	30.33	34.45	30.48	34.32	30.63	46
47	35.47	30.83	35.34	30.99	35.20	31.14	35.06	,31.30	47
48	36.23	31.49	36.09	31.65	35.95	31.81	35.81	31.96	48
49	36.98	32.15	36.84	32.31	36.70	32.47	36.56	32.63	49
50	37.74	.32.80	37.59	32.97	37.45	33.13	37.30	33.29	50
Distance.	Dep.	Lat.	Dep.	Lat. Deg.	Dep. 481	Lat. Deg.	Dep. 481	Lat. Deg.	Distance.

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Distance.	41	Deg.	411	Deg.	41中	Deg.	417	Deg.	Distance.
ice.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ce.
51	38.49	33.46	38.34	33.63	38.20	33.79	38.05	33.96	51
52	39.24	34.12	39:10	34.29	38.95	34.46	38:79	34.63	52
53	40.00	34.77	39.85	34.95	39.69	35.12	39.54	35.29	53
54	40.75	35.43	40.60	35.60	40.44	35.78	40.29	35.96	54
55	41.51	36.08	41.35	36.26	41.19	36.44	41.03	36.62	55
56	42.26	36.74	42.10	36.92	41.94	37.11	41.78	37.29	56
57	43.02	37.40	42.85	37.58	42.69	37.77	42.53	37.96	57
58	43.77	38.05	43.61	38.24	43.44°	38.43	43.27	38.62	58
59	44.53	38.71	44.36	38.90	44.19	39.09	44.02	39.29	59
60	45.28	39.36	45.11	39.56	44.94	39.76	44.76	39.95	60
61	46.04	40.02	45.86	40.22	45.69	40.42	45.51	40.62	61
62	46.79	40.68	46.61	40.88	46.44	41.08	46.26	41.28	62
63	47.55	41.33	47.37	41.54	47.18	41.75	47.00	41.95	63
64	48.30	41.99	48.12	42.20	47.93	42.41	47.75	42.62	64
65	49.06	42.64	48.87,	42.86	48.68	43.07	48.49	43.28	65
66	49.81	43.30	49.62	43.52	49.43	43.73	49.24	43.95	66
67	50.57	43.96	50.37	44.18	50.18	44.40	49.99	44.61	67
68	51.32	44.61	51.13	.44.84	50.93	45.06	50.73	45.28	68
69	52.07	45.27	51.88	45.49	51.68	45.72	51.48	45.95	69
70	52.83	45.92	52.63	46.15	52.43	46.38	52.22	46.61	70
71	53.58	46.58	53.38	46.81	53.18	47.05	52.97	47.28	71
72	\$4.34	47.24	54.13	47.47	53.92	47.71	53.72	47.94	72
73	55.09	47:89	54.88	48.13	54.67	48.37	54.46	48.61	73
74	55.85	48.55	55.64	48.79	55.42	49.03	55.21	49.28	74
75	•56.60	49.20	56.39	49.45	56.17	49.70	55.95	49.94	75
76	57.36	49.86	57.14	50.11	56.92	50.36	56.70	50.61	76
77	58.11	50.52	57.89	50.77	57.67	51.02	57.45	51.27	77
78	58.87	51.17	58.64	51.43	58.42	51.68	58.19	51.94	78
79	59.62	51.83	59.40	52.09	· 59.17	52.35	58.94	52.60	79
80	60.38	52.48	60.15	52.75	59.92	53.01	59.68	53.27	80
81	61.13	53.14	60.90	53.41	60.67	53.67	60.43	53.94	81
82	61.89	53.80	61.65	54.07	61.41	54.33	61.18	54.60	82
83	62.64	54.45	62.40	54.73	62.16	55.00	61.92	55.27	83
84	63.40	55.11	63.15	55.38	62.91	55.66	62.67	55.93	84
85	64.15	55.76	63.91	56.04	63.66	56.32	63.41	56.60	85
86	64.90	56.42	64.66	56.70	64.41	56.99	64.16	57.27	86
87	65.66	57.08	65.41	57.36	65.16	57,65	64.91	57.93	87
88	66.41	57.73°	66.16	58.02	65.91	58.31	65.65	58.60	-88
89	67.17	58.39	66.91	58.68	66.66	58.97	66.40	59.26	89
90	67.92	59.05	67.67	59.34	67.41	59.64	67.15	59.93	90
91	68.68	59.70	68.42	60.00	68.15	60.30	67.89	60.60	91
92	69.43	60.36	69.17	60.66	68.90	60.96	68.64	61.26	92
93	70.19	61.01	69.92	61.32	69.65	61.62	69.38	61.93	93
94	70.94	61.67	70.67	61.98	70.40	62.29	70.13	62.59	94
95	71.70	62.33	71.43	62.64	71.15	62.95	70.88	63.26	95
96	72.45	62.98	72.18	63.30	71.90	63.61	71.62	63.92	96
97	73.21	63.64	72.93	63.96	72.65	64.27	72.37	64.59	97
98	73.96	64.29	73.68	64.62	73.40	64.94	73.11	65.26	98
99	74.72	64.95	74.43	65.28	74.15	65.60	73.86	65.92	99
100	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance.	<b>4</b> 9 I	Deg.	483	Deg.	483	Deg.	481	Deg.	Distance.

				_					
Distance.	42	Deg.	421	Deg.	423	Deg.	421	Deg.	Distance.
ce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Ce.
1 2 3 4 5 6 7 8.	0.74 1.49 2.23 2.97 3.72 4.46 5.20 5.95 6.69	0.67 1.34 2.01 2.68 3.35 .4.01 4.68 5.35 6.02	0.74 1.48 2.22 2.96 3.70 4.44 5.18 5.92 6.66	0.67 1.34 2.02 2.69 3.36 4.03 4.71 5.38 6.05	0.74 1.47 2.21 2.95 3.69 4.42 5.16 5.90 6.64	0.68 1.35 2.03 2.70 3.38 4.05 4.73 5.40 6.08	0.73 1.47 2.20 2.94 3.67 4.41 5.14 5.87 6.61	0.68 1.36 2.04 2.72 3.39 4.07 4.75 5.43	1 2 3 4 5 6 7 8 9
10	6.69 7.43	6.69	7.40	6.72	7.37	6.76	7.34	6.79	10
12 13 14 15 16 17 .18 19 20	8.17 8.92 9.66 10.40 11.15 11.89 12.63 13.38 14.12 14.86	7.36 8.03 8.70 9.37 10.04 10.71 11.38 12.04 12.71 13.38	8.14 8.88 9.62 10.36 11.10 11.84 12.58 13.32 14.06 14.80	7.40 8.07 8.74 9.41 10.09 10.76 11.43 12.10 12.77 13.45	8.11 8.85 9.58 10.32 11.06 11.80 12.53 13.27 14.01 14.75	7.43 8.11 8.78 9.46 10.13 10.81 11.48 12.16 12.84 13.51	8.08 9.55 10.28 11.01 11.75 12.48 13.22 13.95 14.69	7.47 8.15 8.82 9.50 10.18 10.86 11.54 12.22 12.90 13.58	11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30	15.61 16.35 17.09 17.84 18.58 19.32 20.06 20.81 21.55 22.29	14.05 14.72 15.39 16.06 16.73 17.40 18.07 18.74 19.40 20.07	15.54 16.28 17.02 17.77 18.51 19.25 19.99 20.73 21.47 22.21	14.12 14.79 15.46 16.14 16.81 17.48 18.15 18.83 19.50	15.48 16.22 16.96 17.69 18.43 19.17 19.91 20.64 21.38 22.12	14.19 14.86 15.54 16.21 16.89 17.57 18.24 18.92 19.59 20.27	15.42 16.16 16.89 17.62 18.36 19.09 19.83 20.56 21.30 22.03	14.25 14.39 15.61 16.29 16.97 17.65 18.33 19.01 19.69 20.36	21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40	23.04 23.78 24.52 25.27 26.01 26.75 27.50 28.24 28.98 29.73	20.74 21.41 22.08 22.75 23.42 24.09 24.76 25.43 26.10 26.77	22.95 23.69 24.43 25.17 25.91 26.65 27.39 28.13 28.87 29.61	20.84 21.52 22.19 22.86 23.53 24.21 24.88 25.55 26.22 26.89	22.86 23.59 24.33 25.07 25.80 26.54 27.28 28.02 28.75 29.49	20.94 21.62 22.29 22.97 23.65 24.32 25.00 25.67 26.35 27.02	22.76 23.50 24.23 24.97 25.70 26.44 27.17 27.90 28.64 29.37	21.04 21.72 22.40 23.08 23.76 24.44 25.12 25.79 26.47 27.15	31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50	30.47 31.21 31.96 32.70 33.44 34.18 34.93 35.67 36.41 37.16	27.43 28.10 28.77 29.44 30.11 30.78 31.45 32.12 32.79 33.46 Lat.	30.35 31.09 31.83 32.57 33.31 34.05 34.79 35.53 36.27 37.01	27.57. 28.24 28.91 29.58 30.26 30.93 31.60 32.27 32.27 32.95 33.62 Lat.	30.23 30.97 31.70 32.44 33.18 33.91 34.65 35.39 36.13 36.86 Dep.	27.70 28.37 29.05 29.73 30.40 31.08 31.75 32.43 33.10 33.78	30.11 30.84 31.58 32.31 33.04 33.78 34.51 35.25 35.98 36.72	27.83 28.51 29.19 29.87 30.55 31.22 31.90 32.58 33.26 33.94 Lat.	41 42 43 44 45 46 47 48 49 50
Distance.	48 I	•	473		473		471		Distance.

Ī	-	7		401 D		1				
	Distance.	42	Deg.	421	Deg.	423	Deg.	421	Deg.	Distance
ł	ce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	\$
l	51	37.90	34.13	37.75	34.29	<b>97</b> .60	34.46	37.45	34.62	51
1	52 53	38.64 39.39	34.79 35.46	38.4	34.96 35.64	38.34 39.08	35.13 35.81	38.18 38.92	35.30 35.98	52 53
	54	40.13	36.13	39.97	36.31	39.81	36.48	39.65	36.66	54
1	55	40.87	36.80	40.71	36.98	40.55	37.16	40.39	37.33	
H	56	41.62	37.47	41.45	37.65	41.29	37.83	41.12	38.01	55 56
·	57	42.36	38.14	42.19	38.32	42.02	38.51	41.86	38.69	57
ı	58 59	43.10 43.85	38.81 39.48	42.93 43.67	39.00 39.67	42.76	39.18 39.86	42.59	39.37 40.05	58 59
ı	60	44.59	40.15	44.41	40.34	44.24	40.54	44 368	40.73	60
1	61	45.33	40.82	45.15	41.Ò1	44.97	41.21	44.79	41.41	61
1	62	46.07	41.49	45.89	41.69	45.71	41.89	45.53	42.09	62
I	63 64	46.82	42.16 42.82	46.63	42.36 43.03	46.45	42.56 43.24	46.26 47.00	42.76	63 64
1	65	48.30	43.49	48.11	43.70	47.19	43.24	47.73	43.44	65
	66	49.05	44.16	48.85	44.38	48.66	44.59	48.47	44.80	66.
ı	67	49.79	44483	49.59	45 -05	49.40	45.26	49.20	45.48	67
ı	68	50.53	45.50	50.33	45.72	50.13	45.94	49.93	46.16	68
ı	69 70	51.28 52.02	46.17 46.84	51.07 51.82	46.39 47.07	50.87 51.61	46.62	50.67 51.40	46.84 47.52	69 70
	71	52.76	47.51	52-56	47.74	52.35	47.97	52.14	48.19	71
ı	72	53.51	48.18	53.30	48.41	53.08	48.64	52.87	48.87	72
ı	73	54.25	48785	54.04	49.08	-53.82	49.32	53.61	49.55	73
1	74	54.99 55.74	49.52 50.18	54.78 55.52	49.76 50.43	54.56 55.30	49.99 50.67	54.34	50.23	74
₹	76	56.48	50.18	56.26	51.10	56.03	51.34	55.07 55.81	50.91	76
П	77	57.22	51.52	57.00	51.77	56.77	52.02	56.54	52.27	77
1	78	57.97	52.19	57 774	52.44	57.51	52.70	5 <b>7.2</b> 8	52.95	78
-	79 80	58.71 59.45	52.86 53.53	58.48 59.22	53.12 53.79	58.24 58.98	53.37 54.05	58.01 58.75	53.63	79 80
ı	81	60.19	54.20	59.96	54.46	59.72	54.72	59.48	54.98	81
ı	82	60.94	54.87	60.70	55.13	60.46	55.40	60.21	-55-66	82
1	83	61.68	55.54	61.44	55.81	61.19	56.07	60.95	56.34	<b>83</b>
1	84 85	62.42 63.17	56.21 56.88	62.18 62.92	56.48	61.93	56.75	61.68	57.02	84
ı	86	63.91	57.55	63.66	57•15 57.82	62.67	57.43 58.10	62.42 63.15	57.70	85 86
ı	87	64.65	58.21	64.40	58.50	64.14	58.78	63.89	59.06	87
ı	88	65.40	58.88	65.14	59.17	64.88	59.45	64.62	59.73	88
	89 90	66 · 14 66 · 88	59.55 60.22	65.88 66.62	59.84 60.51	65.62 66.35	60.13 60.80	65.35 66.09	60.41	90 89
	91	67.63	60.89	67.36	61.19	67.09	61.48	66.82	61.77	91
	92	68.37	61.56	68.10	61.86	67.83	62.15	67.56	62.45	91 92
	93	69.11	62.23	68.84	62.53	68.57	62.83	68.29	63.13	93
	94 95	69,86 70.60	62.90 63.57	69.58 70.32	63.20 63.87	69.30 70.04	63.51	69.03	63.81	94 95
H	96	71.34	64.24	71.06	64.55	70.78	64.18 64.86	69.76 70.49	64.49 65.16	96
	97	72.08	64.91	71.80	65.22	71.52	65.53	71.23	65.84	97
	98 99	72.83	65.57	72.54	65.89	72.25	66.21	71.96	66.52	98
ł	100	73.57 74.31	66.24 66.91	73.28 74.02	66.56 67.24	72.99 73.73	66.88 67.56	72.70 73.43	67.20 67.88	99 100
	Ç.	Dep.	Lat.	Dep.	Lat.	Dep.	Lạt.	Dep.	Lat.	- ej
ľ	Distance.	· AQ T	Deg	473	Don	471	Des	4H1	D	Distance.
ı	ā	40 1	~64	4/2	Deg.	4/3	Deg.	474	Deg.	Di

Distance	43	Deg.	431	Deg.	431	Deg.	434	Deg.	Distance.
nce	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	nce.
1 2 3 4 5 6 7 8 9	0.73 1.46 2.19 2.93 3.66 4.39 5.12 5.85 6.58	0.68 1.36 2.05 2.73 3.41 4.09 4.77 5.46 6.14	0.73 1.46 2.19 2.91 3.64 4.37 5.10 5.83 6.56	0.60 1.37 2.06 2.74 3.43 4.11 4.80 5.48 6.17	9.73 1.45 2.18 2.90 3.63 4.35 5.08 6.53	0.69 1.38 2.07 2.75 3.44 4.13 4.82 5.51 6.20	0.72 1.44 2.17 2.89 3.61 4.33 5.06 5.78 6.50	0.69 1.38 2.07 2.77 3.46 4.15 4.84 5.53 6.22	1 2 3 4 5 6 7 8 9
10	7.31	0.82	7.28	6.85	7.25	6.88	7.22	6:92	10
11 12 13 14 15 16 17 18 19 20	8.04 8.78 9.51 10.24 10.97 11.70 12.43 13.16 13.90 14.63	7.50 8.18 8:87 9.55 10.23 10.91 11.59 12.28 12.96 13.64	8.01 8.74 9.47 10.20 10.93 11.65 12.38 13.11 13.84 14.57	7.54 8.22 8.91 9.59 10.28 10.96 11.65 12.33 13.02 13:70	7.98 8.70 9.43 10.16 10.88 11.61 12.33 13.06 13.78 14.51	7.57 8.26 8.95 9.64 10.33 11.01 11.70 12.39 13.08 13.77	7.95 8.67 9.39 10.11 10.84 11.56 12.28 13.00 13.72 14.45	7.61 8.30 8.99 9.68 10.37 11.06 11.76 12.45 13.14 13.83	11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30	15.36 16.09 16.82 17.55 18.28 19.02 19.75 20.48 21.21 21.94	14.32 15.00 15.69 16.37 17.05 17.73 18.41 19.10 19.78 20.46	15.30 16.02 16.75 17.48 18.21 18.94 19.67 20.39 21.12 21.85	14.39 15.07 15.76 16.44 17.13 17.81 18.50 19.19 19.87 20.56	15.23 15.96	14_46 15.14 15.83 .16.52 17.21 17.90 18.59 19-27 19.96 20.65	15.17 15.89 1661 17.34 18.06 13.78 19.50 20.23 20.95 21.67	14.52 15.21 15.21 15.90 16.60 17.29 17.98 18.67 19.36 20.05 20.75	21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40	22.67 23.40 24.13 24.87 25.60 26.33 27:06 27.79 28.52 29.25	21.14 21.82 22.51 23.19 23.87 24.55 25.23 25.92 26.60 27.28	22,58 23,31 24,04 24,76 25,49 26,22 26,95 27,68 28,41 29,13	21.24 21.93 22.61 23.30 23.98 24.67 25.35 26.04 26.72 27.41	22.49 23.21 23.94 24.66 25.39 26.11 26.84 27.56 28.29 29.01	21.34 22.03 22.72 23.40 24.09 24.78 25.47 26.16 26.85 27.53	22.39 23.12 23.84 24.56 25.28 26.01 26.73 27.45 28.17 28.89	21.44 22.13 22.82 23.51 24.20 24.89 25.59 26.28 26.97 27.66	31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50	29.99 30.72 31.45 32.91 33.64 34.37 35.10 35.84 36.57	27.96 28.64 29.33 30.01 30.69 21.37 32.05 32.74 33.42 34.10	29.86 30.59 31.32 32.05 32.78 33.51 34.23 34.96 35.69 36.42	28.09 28.78 29.46 30.15 30.83 31.52 32.20 32.89 33.57 34.26	29.74 30.47 31.19 31.92 32.64 33.37 34.09 34.82 35.54 36.27	28.22 28.91 29.60 30.29 30.98 31.66 32.35 33.04 33.73 34.42	29.62 30.34 31.06 31.78 32:51 33.23 33.95 34.67 35.40 36.12 Dep.	28.35 29.04 29.74 30.43 31.12 31.81 32.50 33.19 33.88 34.58 Lat.	41 42 43 44 45 46 47 48 49 50
Distance.	Dep.   	Lat.	Dep.	Lat. Deg.	Dep.		· 461		Distance.

Distance	43 I	Oeg.	431 ]	Deg.	43 <u>1</u> 1	Deg.	431	Deg.	Distance.
nce.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	ace.
51	37.30	34.78	37.15 37.88	34.94 35.63	36.99 37.72	35.11 35.79	36.84 37.56	35.27 35.96	51 52
52 53	38.03 38.76	35.46 36.15	38.60	36.31	38.44	36.48	38.29	36.65	53
54	39.49	36.83	39.33	37.00	39.17	37.17	39.01	37.34	54
55	40.22	37.51	40.06	37.69	39.90	37.86	39.73	38.03	55
56	40.96	38.19	40.79	38.37	40.62	38.55	40.45	38.72	56
57	41.69	38.87	41.52	39.06	41.35	39.24	41.17	39.42	57
58 59	42.42 43.15	39.56 40.24	42.25	39.74 40.43	42.07 42.80	39.92 40.61	41.90 42.62	40.11	58 59
60	43.88	40.92	43.70	41.11	43.52	41.30	43.34	41.49	60
61	44.61	41.60	44.43	41.80	44.25	41.99	44.06	42.18	61
62	45.34	42.28	45.16	42.48	44.97	42.68	44.79	42.87	62 63
63 64	46.08 46.81	42.97 43.65	45.89 46.62	43.17 43.85	45.70 46.42	43.37	45.51 46.23	43.57	64
65	47.54	44.33	47.34	44.54	47.15	44.74	46.95	44.95	65
66	48.27	45.01	48.07	45.22	47.87	45.43	47.68	45.64	66
67	49.00	45.69	48.80	45.91	48.60	46.12	48.40	46.33	67
68	49.73	46.38	49.53	46.59	49.33	46.81	49.12	47.02	68 69
69 70	50.46 51.19	47.06 47.74	50.26 50.99	47.28 47.96	50.05 50.78	47.50 48.18	49.84 50.57	47.71 48.41	70
71	51.93	48.42	51.71	48.65	51.50	48.87	51.29	49.10	71
72	52.66	49.10	52.44	49.33	52.23	49.56	52.01	49.79	72
73 74	53.39	49.79	53.17 53.90	50.02	52.95 53.68	50.25	52.73	50.48	73 74
75	54.12 54.85	50.47 51.15	54.63	50.70 51.39	54.40	50.94	53.45 54.18	51.17	75
76	55.58	51.83	55.36	52.07	55.13	52.31	54.90	52.55	76
77	56.31	52.51	56.08	52.76	55.85	53.00	55.62	53.25	77
78	57.05	53.20	56.81	53.44	56.58	53.69	56.34	53.94	78
79 80	57.78 58.51	53.88 54.56	57.54 58.27	54.13 54.81	57.30 58.03	54.38 55.07	57.07 57.79	54.63 55.32	79 80
81	59.24	55.24	59.00	55.50	58.76	55.76	58.51	56.01	81
82	59.97	55.92	59.73	56.18	59.48	56.45	59.23	56.70	82
83	60.70	56.61	60.45	56.87	60.21	57.13	59.96	57.40	83
84	61.43	57.29	61.18	57.58	60.93	57.82	60.68	58.09	84 85
85 86	62.17 62.90	57.97 58.65	61.91	58.24 58.93	61.66 62.38	58.51 59.20	61.40 62.12	58.78 59.47	86
87	63.63	59.33	63.37	59.61	63.11	59.89	62.85	60.16	87
88	64.36	60.02	64.10	60.30	63.83	60.58	63.57	60.85	88
89 90	65.09 65.82	60.70 61.38	64.82 65.55	60.98 61.67	64.56 65.28	61.26 61.95	64.29 65.01	61.54 62.24	89 90
91	66.55	62.06	66.28	62.35	66.01	62.64	65.74	62.93	91
92	67.28	62.74	67.01	63.04	66.73	63.33	66.46	63.62	92
93	68.02	63.43	67.74	63.72	67.46	64.02	67.18	64.31	93
94	68.75	64.11	68.47	64.41	68.19	64.71	67.90	65.00	94
95 96	69.48	64.79	69.20	65.09	68.91	65.39	68.62	65.69 66.39	95 96
96 97	70.21 70.94	65.47 66.15	69.92 70.65	65.78 66.46	69.64 70.36	66.08 66.77	69.35 70.07	67.08	97
98	71.67	66.84	71.37	67.15	71.09	67.46	70.79	67.77	98
99	72.40	67.52	72.11	67.83	71.81	68.15	71.51	68.46	99
100	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	100
nce.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	nce.
Distance	47 I	eg.	461	Deg.	46}	Deg.	461	Deg.	Distance

M

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Distance	44 Deg.	441 Deg.	441 Deg.	44 Deg.	45 Deg.	Distance
noe.	Lat.   Dep.	Lat. Dep.	Lat.   Dep.	Lat.   Dep.	Lat.s Dep.	nce.
1	0.72 0.69	0.72 0.70	0.71 0.70	0.71 0.71	0.71 0.71	1
2	1.44 1.39 2.16 2.08	1.43 1.40 2.15 2.09	1.43 1.40 2.14 2.10	1.42 1.41 2.13 2.11	1.41 1.41 2.12 2.12	2
3 4	2.88 2.78	2.15 2.09	2.85 2.80	2.84 2.82	2.12 2.12 2.83 2.83	3
5	3.60 3.47	3.58 3.49	3.57 3.50	3.55 3.52	3.54 3.54	5 6
6	4.32 4.17	4.30 4.19	4.28 4.21	4.26 4.22	4.24 4.24	6
7 8	5.04 4.86 5.75 5.56	5.01 4.88 5.73 5.58	4.99 4.91 5.71 5.61	4.97 4.93 5.68 5.63	4.95 4.95 5.66 5.66	7 8
9	6.47 6.25	6.45 6.23	6.42 6.31	6.39 6.34	6.36 6.36	9
10	7.19 6.95	7.16 6.98	7.13 7.01	7.10 7.04	7.07 7.07	10
11	7.91 7.64 8.63 8.34	7.88 7.68 8.60 8.37	7.85 7.71	7.81 7.74	7.78 7.78	11
12	8.63 8.34 9.35 9.03	8.60 8.37 9.31 9.07	8.56 8.41 9.27 9.11	9.23 9.15	8.49 8.49 9.19 9.19	12 13
14	10.07 9.73	10.03 9.77	9.99 9.81	9.94 9.86	9.90 9.90	14
15	10.79 10.42	10.74 10.47 11.46 11.16	10.70 10.51 11.41 11.21	10.65 10.56 11.36 11.26	10.61 10.61	15
16 17	11.51 11.11 12.23 11.81	12.18 11.86	12.13 11.92	12.07 11.97	11.31 11.31 12.02 12.02	16 17
18	12.95 12.50	12.89 12.56	12.84 12.62	12.78 12.67	12.73 12.73	18
19 20	13.67 13.20 14.39 13.89	13.61 13.26 14.33 13.96	13.55 13.32 14.26 14.02	13.49 13.38 14.20 14.08	13.43 13.43 14.14 14.14	19 20
<b> </b>			ļi	14.91 14.78		
21 22	15.11 14.59 15.83 15.28	15.04 14.65 15.76 15.35	14.98 14.72 15.69 15.42	15.62 15.49	14.85 14.85 15.56 15.56	21 22
23	16.54 15,98	16.47 16.05	16.40 16.12	16.33 16.19	16.26 16.26	23
24	17.26 16.67	17.19 16.75	17.12 16.82	17.04 16.90	16.97 16.97	24
25 26	17.98 17.37 18.70 18.06	17.91 17.44 18.62 18.14	17.83 17.52 18.54 18.22	17.75 17.60 18.46 18.30	17.68 17.68 18.38 18.38	25 26
27	19.42 18.76	19.34 18.84	19.26 18.92	19.17 19.01	19.09 19.09	27
28	20.14 19.45	20.06 19.54	19.97 19.63	19.89 19.71	19.80 19.80	28
29 30	20.86 20.15 21.58 20.84	20.77 20.24 21.49 20.93	20.68 20.33 21.40 21.03	20.60 20.42 21.31 21.12	20.51 20.51 21.21 21.21	29 30
31	22.30 21.53	22.21 21.63	22.11 21.73	22.02 21.82	21.9221.92	31
32	23.02 22.23	22.92 22.33	22.82 22.43	22.73 22.53	22.63 22.63	32
33 34	23.74 22.92	23.64 23.03 24.35 23.72	23.54 23.13 24.25 23.83	23.44 23.23 24.15 23.94	23.33 23.33 24.04 24.04	33 34
35	24.46 23.62 25.18 24.31	25.07 24.42	24.96 24.53	24.86 24.64	24.75 24.75	35
36	25.90 25.01	25.79 25.12	25.68 25.23	25.57 25.34	25.46 25.46	36
37 38	26.62 25.70	26.50 25.82	26.39 25.93	26.28 26.05	26.16 26.16	37
39	27.33 26.40 28.05 27.09	27.2226.52 27.9427.21	27.10 26.63 27.82 27.34	26.99 26.75 27.70 27.46	26.87 26.87 27.58 27.58	38 39
40	28.77 27.79	28.65 27.91	28.53 28.04	25.41 28.16	28.28 28.28	40
41	29.49 28.48	29.37 28.61	29.24 28.74	29.12 28.86	28.99 28.99	41
42	30.21 29.18	30.08 29.31	29.96 29.44	29.83 29.57	29.70 29.70	42
43 41	30.93 29.87 31.65 30.56	30.8030.00	30.67 30.14 31.38 30.84	30.54 30.27	30.41 30.41	43 44
45	32.37 31.26	31.5230.70 32.2331.40	32.1031.54	31.25 30.98 31.96 31.68	31.1131.11	45
46	<b>33.09</b> 31.95	32.95 32.10	32.81 32.24	32.67 32.38	32.53 32.53	46
47 48	33.81 32.65 34.53 33.34	33.67 32.80	33.52 32.94	33.38 33.09	33.23 33.23	47 48
49	35.25 34.04	34.38 33.49 35.10 34.19	34.2433.64 34.9534.34	34.09 33.79 34.80 34.50	33.9433.94 34.6534.65	49
50	35.97 34.73	35.82 34.89	35.66 35.05	35.51 35.20	35.36 35.36	50
nce.	Dep. Lat.	nce.				
Distance.	46 Deg.	45 Deg.	45½ Deg.	451 Deg.	45 Deg.	Distance.
<u> </u>	10 20%.	24 1006.	-103 Dag.	Total Dog.	20 20 NO.	D

		1				
Distance	44 Deg.	441 Deg.	44½ Deg.	441 Deg.	45 Deg.	Distance
nce.	Lat.   Dep.	Lat. Dep.	Lat.   Dep.	Lat.   Dep.	Lat. Dep.	nce.
51	36.69 35.43	36.53 35.59	36.38 35.75	36.2235.90	36.06 36.06	51
52	37.41 36.12	37.25 36.29	37.0936.45	36.9336.61 37.6437.31	36.77 36.77	52 53
53 54	38.1236.82 38.8437.51	37.96 36.98 38.68 37.68	38.52 37.85	38.35 38.02	37.48 37.48 38.18 38.18	54
55	39.56 38.21	39.4038.38	39.2338.55	39.0638.72	38.89 38.89	55
56	40.28 38.90	40.1139.08	39.94 39.25	39.77 39.42	39.60 39.60	56
57	41.00 39.60	40.83 39.77	40.66 39.95	40.48 40.13	40.31 40.31	57
58	41.72 40.29	41.55 40.47	41.37 40.65	41.19 40.83	41.0141.01	58
59	42.44 40.98	42.26 41.17	42.08 41.35	41.90 41.54	41.7241.72	59
60	43.16 41.68	42.98 41.87	42.79 42.05	42.61 42.24	42.43 42.43	60
61	43.88 42.37	43.69 42.57	43.51 42.76	43.32 42.94	43.1343.13	61
62	44.60 43.07	44.41 43.26	44.22 43.46	44.03 43.65	43.84 43.84	62
63 64	45.32 43.76 46.04 44.46	45.13 43.96	44.93 44.16	44.74 44.35 45.45 45.06	44.55 44.55 45.25 45.25	63 64
65	46.76 45.15	45.84 44.66 46.56 45.36	45.65 44.86 46.36 45.56	46.1645.76	45.2545.25	65
66	47.48 45.85	47.28 46.05	47.07 46.26	46.8746.46	46.67 46.67	66
67	48.20 46.54	47.99 46.75	47.79 46.96	47.5847.17	47.3847.38	67
68	48.92 47.24	48.71 47.45	48.50 47.66	48.29 47.87	48.08 48.08	68
69	49.63 47.93	49.42 48.15	49.21 48.36	49.00 48.58	48.79 48.79	69
70	50.35 48.63	50.14 48.85	49.93 49.06	49.71 49.28	49.5049.50	70
71	51.07 49.32	50.86 49.54	50.64 49.76	50.4249.98	50.2050.20	71
72	51.79 50.02	51.57 50.24	51.35 50.47	51.1350.69	50.91 50.91	72
73	52.51 50.71	52.29 50.94	52.07 51.17	51.8451.39	51.6251.62	73
74 75	53.23 51.40	53.01 51.64	52.78 51.87	52.55 52.10	52.33 52.33	74
76	53.95 52.10 54.67 52.79	53.72 52.33 54.44 53.03	53.49 52.57   54.21 53.27	53.26 52.80 53.97 53.51	53.0353.03 53.7453.74	75 76
77	55.39 53.49	55.16 53.73	54.92 53.97	54.68 54.21	54.45 54.45	77
78	56.1154.18	55.87 54.43	55.63 54.67	55.39 54.91	55.15 55.15	78
79	56.83 54.88	56.59 55.13	56.35 55.37	56.1055.62	55.86 55.86	79
80	57.55 55.57	57.30 55.82	57.06 56.07	56.81 56.32	56.57 56.57	80
81	58.27 56.27	58.02 56.52	57.77 58.77	57.5257.03	57.28 57.28	81
82	58.99 56.96	58.74 57.22	58.49 57.47	58.24 57.73	57.98 57.98	82
83	59.71 57.66	59.45 57.92	59.20 58.18	58.95 58.43	58.69 58.69	83
84	60.42 58.35	60.17 58.61	59.91 58.88	59.66 59.14	59.40 59.40	84
85	61.1459.05	60.89 59.31	60.6359.58	60.37 59.84	60.1060.10	85
86 87	61.86 59.74 62.58 60.44	61.60 60.01 62.32 60.71	61.34 60.28 62.05 60.98	61.08 60.55	60.8160.81 61.5261.52	86 87
88	63.30 61.13	63.03 61.41	62.77 61.68	61.7961.25 62.5061.95	62.23 62.23	88
89	64.0261.82	63.75 62.10	63.48 62.38	63.21 62.66	62.93 62.93	89
90	64.74 62.52	64.47 62.80	64.19 63.08	63.92 63.36	63.64 63.64	90
91	65.46 63.21	65.18 63.50	64.91 63.78	64.63 64.07	64.35 64.35	91
92	66.1863.91	65.90 64.20	65.6264.48	65.3464.77	65.05 65.05	92
93	66.90 64.60	66.62 64.89	66.33 65.18	66.05 65.47	65.76 65.76	93
94	67.62 65.30	67.33 65.59	67.05 65.89	66.76 66.18	66.47 66.47	94
95	68.3465.99	68.05 66.29	67.76 66.59	67.47 66.88	67.18 67.18	95
96 97	69.06 66.69	68.76 66.99	68.47 67.29	68.1867.59	67.88 67.88	96
98	69.78 67.38 70.50 68.08	69.48 67.69 70.20 68.38	69.19 67.99 69.90 68.69	68.89 68.29 69.60 68.99	68.59 68.59 69.30 69.30	97 98
99	71.2168.77	70.91 69.08	70.61 69.39	70.3169.70	70.00 70.00	99
100	71.93 69.47	71.63 69.78	71.33 70.09	71.0270.40	70.71 70.71	100
. ĕ	Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	Dep. Lat.	ė
Distance.			ļ			Distance.
ist	46 Deg.	451 Deg.	45½ Deg.	451 Deg.	45 Deg.	.5
			1 2 6.			А

## A TABLE

OF

## LOGARITHMS,

FROM 1 TO 10,000.

Note. The index of the logarithm of every integer number consisting of only one figure is 0, of two figures 1, of three figures 2, of four figures 3; being always a unit less than the number of figures contained in the integer number. In this table, as is generally the case, the index to the logarithm of every number above 100 is omitted; yet in the operation must be prefixed according to this remark; so the logarithm of 700 is 2,84510, and of 7000 is 3,84510, and so of the rest.

No.	Log.	No.	Log.	No.	Log.	No.	Log.	No.	Log.
1	0.00000	21	1.32222	41	1.61278	61	1.78533	81	1.90849
2	0.30103	22	1.34242	42	1.62325	62	1.79239	82	1.91381
3	0.47712	23	1.36173	43	1.63347	63	1.79934	83	1.91908
4	0.60206	24	1.38021	44	1.64345	64	1.80618	84	1.92428
-5	0.69897	25	1.39794	45	1.65321	65	1.81291	85	1.92942
6	0.77815	26	1.41497	46	1.66276	66	1.81954	86	1.93450
7	0.84510	27	1.43136	47	1.67210	67	1.82607	87	1.93952
8	0.90309	28	1.44716	48	1.68124	68	1.83251	88	1.94448
9	0.95424	29	1.46240	49	1.69020	69	1.83885	89	1.94939
10	1.00000	30	1.47712	50	1.69897	70	1.84510	90	1.95424
11	1.04139	31	1.49136	51	1.70757	71	1.85126	91	1.95904
12	1.07918	32	1.50515	52	1.71600	72	1.85733	92	1.96379
13	1.11394	33	1.51851	53	1.72428	73	1.86332	93	1.96848
14	1.14613	34	1.53148	54	1.73239	74	1.86923	94	1.97313
15	1.17609	. 35	1.54407	55	1.74036	75	1.87506	95	1.97772
16	1.20412	36	1.55630	56	1.74819	76	1.88081	96	1.98227
17	1.23045	37	1.56820	57	1.75587	77	1.88649	97	1.98677
18	1.25527	38	1.57978	58	1.76343	78	1.89209	98	1.99123
19	1.27875	39	1.59106	59	1.77085	79	1.89763	99	1.99564
20	1.30103	40	1.60206	60	1.77815	80	1.90309	100	2.00000

No.	0	1	2	3	4	5	6	7	8	9
100	00000	00043	00087	00130	00173	00217	00260	00303	00346	00389
101	00432	00475	00518	00561	00604	00647	00689	00732	00775	00817
102		00903	00945	00988	01030	01072	01115	01157	01199	01242
103		01326	01368	01410	01452	01494	01536	01578	01620	01662
104	01703	01745	01787	01828	01870	01912	01953	01995	02036	02078
105	02119	02160	02202	02243	02284	02325	02366	02407	02449	02490
106		02572	02612	02653	02694	02735	02776	02816	02857	02898
107	02938	02979 03383	03019	03060	03100	03141	03181, 03583	03222 03623	03262	03302
108 109	03342	03782	03423 03822	03463 03862	03503	03543 03941	03981	04021	03663 04060	03703 04100
<b>E</b> 1										
110	04139	04179	04218	04258	04297	04336	04376	04415	04454	04493
111	04532	04571 04961	04610	04650	04689 05077	04727 05115	04766 05154	04805 05192	04844 05231	04883 05269
112 113		05346	04999 05385	05038 05423	05461	05500	05538	05152	05614	05652
114		05729	05767	05805	05843	05881	05918	05956	05994	06032
115		06108	06145	06183	06221	06258	06296	06333	06371	06408
116		06483	06521	06558	06595	06633	06670	06707	06744	06781
117		06856	06893	06930	06967	07004	07041	07078	07115	07151
118		07225	07262	07298	07335	07372	07408	07445	07482	07518
119	07555	07591	07628	07664	07700	07737	07773	07809	07846	07882
120	07918	07954	07990	08027	08063	08099	08135	08171	08207	08243
121	08279	08314	08350	08386	08422	08458	08493	08529	08565	08600
122	08636	08672	08707	08743	08778	08814	08849	08884	08920	08955
123		09026	09061	09096	09132	09167	09202	09237	09272	09307
124		09377	09412	09447	09482	_09517	09552	09587	09621	09656
125		09726	09760	09795	09830	09864	09899	09934	09968	10003
126		10072	10106	10140	10175	10209	10243	10278	10312	10346
127		10415	10449	10483	10517	10551	10585	10619	10653	10687
128 129		10755	10789 11126	10823 11160	10857 11193	10890 11227	10924 11261	10958 11 <b>294</b>	10992 11327	11025
· III		1								
130 131		11428 11760	11461 11793	11494	11528	11561	11594 11926	11628	11661 11992	11694
132		12090	12123	11826 12156	11860 12189	11893 12222	12254	11959 12287	12320	12024 12352
133		12418	12450	12483	12516	12548	12581	12613	12646	12678
134		12743	12775	12808	12840	12872	12905	12937	12969	13001
135		13066	13098	13130	13162	13194	13226	13258	13290	13322
136	13354	13386	13418	13450	13481	13513	13545	13577	13609	13640
137		13704	13735	13767	13799	13830	13862	13893	13925	13956
138		14019	14051	14082	14114	14145	14176	14208	14239	14270
139	- 1	14333	14364	14395	14426	14457	14489	14520	14551	14582
140	14613	14644	14675	14706	14737	14768	14799	14829	14860	14891
141			14983	15014		15076	15106	15137	15168	15198
149		15259	15290	15320		15381	15412	15442	15473	15503
149		15564	15594	15625	15655	15685	15715	15746	15776	15806
144 144		15866 16167	15897 16197	15927 16227	15957	15987	16017 16316	16047	16077	16107
140		16465	16495	16524	16256 16554	16286 16584	16613	16346 16643	16376 16673	16406 16702
14			16791	16820		16879	16909	16938	16967	16997
148			17085	17114		17173	17202	17231	17260	17289
149			17377	17406		17464	17493	17522	17551	17580
150	-		17667	17696		17754	17782	17811	17840	17869
15			17955	17984		18041	18070	18099	18127	18156
159			18241	18270		18327	18355	18384	18412	18441
15			18526	18554		18611	18639	18667	18696	18724
15			18808	18837	18865	18893	18921	18949	18977	19005
15			19089	19117	19145	19173		19229	19257	19285
15				19396	19424	19451	19479	19507	19535	19562
15			19645	19673	,	19728	19756	19783	19811	19838
15				19948		20003		20058	20085	20112
15	9   20140	20167	9 20194	20222	20249	20276	20303	20330	20358	20385

_											
1	No.	0	1	2	3	4	5	6	7	8	9
	160	20412	20439	20466	20493	20520	20548	20575	20602	20629	
ı	161	20683	20710	20737	20763	20790	20817	20844	20871	20898	
ı	162	20952	20978	21005	21032	21059	21085	21112	21139	21165	21192
ı	163 164	21219 21484	21245 21511	21272 21537	21299 215 <b>64</b>	21325 21590	21352 21617	21378 21643	21405 21669	21431 21696	21458 21722
	165	21748	21775	21801	21827	21854	21880	21906	21932	21958	21985
ı	166	22011	22037	22063	22089	22115	22141	22167	22194	22220	22246
ı	167	22272	22298	22324	22350	22376	22401	22427	22453	22479	22505
ı	168	22531	22557	22583	22608	22634	22660	22686	22712	22737	22763
I	169	22789	22814	22840	22866	<b>22</b> 691	22917	22943	22968	22994	23019
ł	170	23045	23070	23096	23121	23147	23172	23198	23223	23249	23274
1	171	23300	23325	23350	23376	23401	23426	23452	23477	23502	23528
ı	172	23553	23578	23603	23629	23654	23679	23704	23729	23754	23779
ı	173	23805	23830	23855	23880	23905	23930	23955	23980	24005	24030
ı	174 175	24055 24304	24080 24329	24105 24353	24130 24378	24155 24403	24180 24428	24204 24452	24 <b>42</b> 9 24477	24254 24502	24279 24527
ı	176	24551	24576	24601	24625	24650	24674	24699	24724	24748	24773
I	177	24797	24822	24846	24871	24895	24920	24944	24969	24993	25018
۱	173	25042	25066	25091	25115	25139	25164	25188	25212	25237	25261
ı	179	25285	25310	25334	25358	25382	25406	25431	25455	25479	25503
ı	180	25527	25551	25575	25600	25624	25648	25672	25696	25720	25744
ı	181	25768	25792	25816	25840	25864	<b>2588</b> 3	25912		25959	25983
ł	182	26007	26031	26055	26079	26102	26126	,	26174	26198	26221
ł	183	26245	26269	26293	26316	26340	26364	26387		26435	26458
ı	184 185	26482 26717	26505 26741	26529 26764	26553	26576	26600	26623	26647	26670	26694
ł	186	26951	26975	26998	26788 27021	26811 27045	26834 27068	26858 27091	26881 27114	26905 27138	26928 27161
ı	187	27184	27207	27231	27254	27277	27300	27323	27346	27370	27393
ł	188	27416	27439	27462	27485	27508	27531	27554	27577	27600	27623
1	189	27646	27669	27692	27715	27738	27761	27784	27807	27830	27852
1	190	27875	27898	27921	27944	27967	27989	28012	28035	28058	28081
1	191	28103	28126	28149	28171	28194	28217	28240	28262	28285	28307
ı	192	28330	28353	28375	28398	28421	28443	28466	28488	28511	28533
1	193 194	28556	28578	28601	28623	28646	28668	28691 28914	28713	28735	28758 28981
1	195	28780 29003	28803 29026	28825 29048	28847 29070	28870 29092	28892 29115	29137	28937 29159	28959 29181	29203
ı	196	29226	29248	29270	29292	29314	29336	29358	29380	29403	29425
1	197	29447	29469	29491	29513	29535	29557	29579	29601	29623	29645
1	198	29667	<b>296</b> 88	29710	29732	29754	29776	29798	29820	29842	29863
I	199	29885	29907	29929	29951	29973	29994	30016	30038	30060	30081
ı	200	30103	30125	30146	30168	30190	30211	30233	30255	30276	30298
1	201	30320	30341	30363	30384	30406	30428	30449	30471	30492	30514
1	202 203	30535	30557	30578 30792	30600	30621	30643	30664	30685	30707	30728
ı	203	30750 30963	30771 30984	31006	30814 31027	30835 31048	30856 31069	30878 31091	30899 31112	30920 31133	30942 31154
I	205	31175	31197	31218	31239	31260	31281	31302	31323	31345	31366
ł	206	31387	31408	31429	31450	31471	31492	31513	31534	31555	31576
1	207	31597	31618	31639	31660	31681	31702	31723	31744	31765	31785
ı	208	31806	31827	31848	31869	31890	31911	31931	31952	31973	31994
I	209	32015	32035	32056	32077	32098	32118	32139	32160	32181	32201
J	210	32222	32243	32263	32284	32305	32325	32346	32366	32387	32408
ı	211	32428	32449	32469	32490	32510	32531	32552	32572	32593	32613
ł	212 213	32634 32838	32654	32675	32695	32715	32736	32756 32960	32777 32980	32797	32818 33021
ı	214	33041	32858 33062	32879 33082	32899 33102	32919 33122	32940 33143	33163	33183	33001 33203	33224
١	215	33244	33264	33284	33304	33325	33345	33365	33385		33425
ı	216	33445	33465	33486	33506	33526	33546	33566	33586		33626
I	217	33646	33666	33686	33706	33726	33746	33766	33786		33826
ı	218	33846	33866	33885	33905	33925	53945	33965	33985		34025
Ì	219	34944	34064	34084	34104	34124	34143	34163	34183	34203	34223

I	lo.	0	1	2	3	4	5	6	7	8	9
2	20	34242	34262	34282	34301	34321	34341	34361	34380	34400	34420
	21	34439	34459	34479	34498	34518	34537	34557	34577	34596	34616
	22	34635	34655	34674	34694	34713	34733	34753	34772	34792	34811
	23	34830	34850	34869	34889	34908	34928	34947	34967	34986	35005
	24	35025	35044	35064	35083	35102	35122	35141	35160	35180	35199
	25 26	35218	35238	35257	35276	35295	35315	35334	35353	35372	35392
	26 27	35411	35 <b>43</b> 0 35 <b>622</b>	36449	35468	35488	35507	35526	35545	35564	35583
	28	35 <b>603</b> 35 <b>793</b>	35813	35641 35832	35660 35851	35679 35870	35698 35889	35717 35908	35736 35927	35755 35946	35774 35965
	29	35984	36003	36021	36040	36059	36078	36097	36116	36135	36154
- 1	30	36173									
	31	36361	36192 36380	36211 36399	36229	36248 36436	36267 36455	36286 36474	36305 36493	36324 36511	36342 26530
	32	36549	36568	36586	36418 36605	36624	36642	36661	36680	36698	36717
	33	36736	36754	36773	36791	36810	36829	36847	36866	36884	36903
	34	36922	36940	36959	36977	36996	37014	37033	37051	37070	37088
	35	37107	37125	37144	37162	37181	37199	37218	37236	37254	37273
	36	37291	37310	37328	37346	37365	37383	37401	37420	37438	37457
	37	37475	37493	37511	37530	37548	37566	37585	37603	37621	37639
	38	37658	37676	37694	37712	37731	37749	37767	37785	37803	37822
2	39	37840	37858	37876	37894	37912	37931	37949	37967	37985	38003
	40	38021	38039	38057	38075	38093	38112	38130	38148	38166	38184
	41	38202	38220	38238	38256	38274	38292	38310	38328	38346	38364
	42	38382	<b>3</b> 8399	38417	38435	38453	88471	38489	38507	38525	38543
	43	38561	38578	38596	38614	38632	38650	38668	38686	38703	38721
	44	38739	38757	38775	38792	38810	38828	38846	38863	38881	38899
	45 46	38917	38934	38952	38970	38987	39005	39023	39041	39058	39076
	47	39094 39270	39111 39287	39129	39146	39164	39182	39199	39217	39235	39252
	48	39445	39463	39305 39480	39322 39498	39340 39515	39358 39533	39375 39550	39393 39568	39410 39585	39428
	49	39620	39637	39655	39672	39690	39707	39724	39742	39759	39777
M	50	39794	39811	39829	39846	39863	39881	39898	39915	39933	39950
	51	39967	39985	40002	40019	40037	40054	40071	40088	40106	40123
	52	40140	40157	40175	40192	40209	40226	40243	40261	40278	40295
	53	40312	40329	40346	40364	40381	40398	40415	40432	40449	40466
	54	40483	40500	40518	40535	40552	40569	40586	40603	40620	40637
	55	40654	40671	40688	40705	40722	40739	40756	40773	40790	40807
	56	40824	40841	40858	40875	40892	40909	40926	40943	40960	40976
	57	40993	41010	41027	41044	41061	41078	41095	41111	41128	41145
	58	41162	41179	41196	41212	41229	41246	41263	41280	41296	41313
B)	59	41330	41347	41363	41380	41397	41414	41430	41447	41464	41481
	60	41497	41514	41531	41547	41564	41581	41597	41614	41631	41647
	61 62	41664 41830	41681 41847	41697	41714	41731	41747	41764	41780	41797	41814
	63	41996	42012	41863	41880	41896	41913	41929	41946	41963	41979
	64	42160	42177	42193	42045 42210	42062 42226	42078 42243	42095 42259	42111 42275	42127 42292	42144 42308
	65	42325	42341	42357	42374	42390	42406	42423	42439	42455	42472
	66	42488	42504	42521	42537	42553	42570	42586	42602	42619	42635
2	67	42651	42667	42684	42700	42716	42732	42749	42765	42781	42797
	68	42813	42830	42846	42862	42878	42894	42911	42927	42943	42959
- 1	69	42975	42991	43008	43024	43040	43056	43072	43088	43104	43120
	70	43136	43152	43169	43185	43201	43217	43233	43249	43265	43281
	71	43297	43313	43329	43345	43361	43377	43393	43409	43425	43441
	72	43457	43473	43489	43505	43521	43537	43553	43569	43584	43600
	73	43616	43632	43648	43664	43680	43696	43712	43727	43743	43759
	74	43775	43791	43907	43823	43838	43854	43870	43886	43902	43917
	75 76	43933	43949	43965	43981	43996	44012	44028	44044	44059	44075
	77	44091 44248	44107 44264	44122	44138	44154	44170	44185	44201	44217	44232
	78	44404	44420	44279	44295 44451	44311 44467	44326 44483	44342 44498	44358 44514	44373 44500	4438 <b>9</b> 445 <b>4</b> 5
	79	44560	44576	44592	44607	44623	444638		44669		14700

No.   O											
	No.	0	1	2	3.	4	5	6	7	8	9
1-892   1-6928   1-6940   1-6956   1-											
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287   45788   45803   45818   45834   45840   45864   45879   45804   45909   45924   45939   45954   45969   45984   46000   46015   46100   46105   46210   46225   46270   46285   46300   46315   46330   46345   46359   46324   46239   46389   46404   46419   46434   46449   46444   46479   46434   46464   46571   46726   46721   46724   46657   46672   46716   46731   46746   46761   46776   46790   46885   46880   46884   46879   46884   46879   46884   46897   46894   46899   46923   46893   46897   47012   47026   47041   47056   47070   47085   47070   47085   47070   47087   47087   47184   47159   47134											
288   45939   45954   45969   45969   46105   46105   46105   46105   46105   46105   46105   46105   46210   46225   46220   46225   46230   46335   46330   46345   46339   46340   46215   46225   46300   46315   46330   46345   46359   46325   46380   46345   46568   46568   46613   46613   46627   46642   46667   46672   294   46635   46680   46686   46879   46894   46909   46923   46938   46967   46701   47710   477											
289											
291   46389   46404   46419   46434   46469   46658   46673   46687   46674   46657   46672   46637   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46880   46894   46894   46894   46893   46893   46893   46893   46893   46894											
291   46389   46404   46419   46434   46469   46658   46673   46687   46674   46657   46672   46637   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46687   46880   46894   46894   46894   46893   46893   46893   46893   46893   46894	290	46240	46255	46270	46285	46300	46315	46330	46345	46359	46374
293   46687   46702   46716   46731   46746   46776   46776   46790   46805   46820     294   46835   46860   46864   46879   46894   46893   46938   46957   46967     295   46982   46997   47012   47026   47041   47056   47070   47085   47100   47114     296   47129   47144   47159   47137   47188   47292   47217   47232   47246   47261     297   47276   47290   47305   47319   47334   47349   47363   47378   47392   47407     298   47486   47451   47465   47460   47494   47509   47524   47538   47583     300   47712   47727   47741   47756   47770   47784   47694   47669   47689   47689     300   47712   47727   47741   47756   47770   47784   47799   47813   47892   47840     301   47857   47871   47885   47900   47914   47929   47843   47988   47972   47986     302   48001   48015   48029   48044   48058   48073   48073     304   48287   48302   48316   48330   48344   48359   48373     304   48287   48302   48316   48330   48344   48359   48373     305   48749   48748   48748   48756   48770   48785   48799   48813   48883     308   48855   48868   48861   48615   48629   48643   48657   48671   48666     307   48714   48728   48742   48756   48770   48785   48799   48813   48827     308   48855   48868   48883   48897   48911   48926   48940   48954     309   48996   49010   49024   49038   49052   49066   49080   49034   49188   49332     311   49276   49290   49304   49318   49332   49346   49368   49513   49527   49541     313   49554   49568   49582   49566   49610   49624   49638   49665   49679     314   49693   49907   49904   49917   49784   49768   49665   49679     315   50329   50799   50813   50406   50840   50835   50865   50840   50835   50895   50835   50895     325   51188   51020   51215   51288   51242   51355   51288   51295   50229     325   51385   51665   51878   51891   51904   51917   51930   51943   51957   51970     321   51655   52666   52679   52635   52686   52699   525114   52125   52286   52695   52686   52695   52686   52699   52514   52675   52686   52699   52515   52686			1								
2934         466767         46702         46716         46731         46748         46761         46770         46709         46805         46864         46879         46894         46892         46923         46936         46965         46967           295         46992         47199         471012         47026         47041         47056         47001         47110         47110         47110         47110         47110         47110         47110         47110         47111         47276         47290         47319         47334         47349         47363         47373         47373         47373         47373         47373         47373         47373         47373         47373         47374         47753         47761         47765         47640         47640         47654         47669         47683         4758         47670         47712         477747         47774         47774         47779         47784         47799         47813         47828         47842         47863         4737         47886         48070         48101         48116         48160         48070         48216         48230         48244         48259         48373         48481         48202         48244         48259											
295   46982   46997   47012   47026   47041   47056   47070   47085   47100   47114   47159   47173   47188   47202   47217   47232   47246   47261   27276   47290   47305   47319   47334   47349   47363   47378   47392   47377   47336   47436   47451   47484   47509   47524   47538   47553   47596   47677   47784   47765   47654   47664   47664   47667   47683   47683   47693   47670   477112   47727   47777   47776   47770   47784   47799   477813   47822   47898   48001   48015   48029   48044   48058   48073   48087   48309   48244   48259   48173   48187   48202   48216   48330   48244   48259   48373   48187   48202   48216   48330   48244   48259   48373   48387   48301   48244   48259   48373   48487   48502   48368   48673   48667   48671   48686   48670   48615   48692   48644   48559   48644   48559   48644   48559   48644   48559   48644   48559   48644   48559   48644   48559   48644   48559   48644   48559   48644   48559   48645   48670   4867		46687						46776	46790	46805	46820
296   47129   47144   47159   47173   47188   477902   47216   47281   47392   47407   47305   47319   473334   47349   47363   47378   47392   47407   47729   47465   47480   474509   474509   47524   47538   47558   47558   47567   47578   47576   47765   47760   47764   47769   47654   47669   47683   47698   47657   47771   47765   47760   47784   47799   47613   47828   47698   47698   47697   47877   47781   47765   47700   47714   47794   47794   47794   47792   47980   301   47857   47871   47885   47900   47914   47929   47943   47958   47972   47986   303   48144   48159   48173   48187   48202   48246   48230   48247   48259   48316   48330   48344   48259   48373   48387   483101   48116   48130   48147   48159   48173   48187   48167   48159   48173   48187   48167   48159   48173   48187   48167   48159   48173   48187   48167   48159   48173   48187   48167   48159   48173   48187   48167   48159   48173   48187   48167   48159   48173   48187   48167   48159   48173   48187   48167   48159   48131   48167   48159   48133   48368   48601   48615   48629   48643   48657   48670   48714   48728   48742   48756   48770   48785   48799   48133   48827   48813   48859   48982   48968   48984   48984   48954   48968   48982   48968   48982   49966   49080   49094   49108   49122   49134   49276   49290   49304   49318   49354   49368   49665   49679   49681   49686   49687   49784   49768   49688   49688   49687   49784   49768   49688   49681   49665   49679   49681   49685   49686   49680   49914   49927   49941   49951   49951   49951   49951   49958   49666   50678   50610   50024   50037   50016   50049	294	46835	46850	46864	46879	46894	46909	46923	46938	46953	46967
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298											
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300   47712   47727   47741   47756   47770   47784   47799   47813   47828   47842   47943   47961   47986   47970   47981   47981   47986   47970   47981   47983   47981   47986   47970   47981   47983   48907   48101   48116   48130   48144   48159   48173   48187   48202   48216   48230   48244   48259   48273   48302   48316   48330   48344   48359   48373   48387   48401   48146   48130   48174   48728   48742   48756   48770   48785   48799   48813   48827   48866   48601   48615   48629   48643   48657   48671   48866   48700   307   48714   48728   48742   48756   48770   48785   48799   48813   48827   48841   308   48855   48869   48883   48897   48911   48926   48940   48954   48968   48982   310   49136   49150   49164   49178   49192   49206   49200   49204   49348   49452   311   49276   49290   49304   49318   49332   49346   49360   49374   49388   49402   312   49415   49429   49443   49457   49471   49485   49499   49513   49527   49541   315   49831   49845   49859   49872   49866   49900   49904   49908   49907   49711   49734   49748   49762   49776   49790   49803   49817   315   49865   49665   49665   50660   50120   50133   50147   50161   50174   50188   50202   50215   50229   317   50106   50120   50133   50147   50161   50174   50188   50202   50215   50229   318   50379   50393   50466   50420   50433   50447   50461   50474   50488   50493   50907   509097   5											
301   47857   47871   47885   47900   47914   47929   47943   47958   47972   47986   302   48001   48015   48029   48044   48058   48073   48087   48101   48116   48130   303   48144   48159   48117   48187   4829   48216   48230   48244   48259   48273   304   48287   48302   48346   48330   48344   48359   48373   48387   48401   48416   48458   306   48572   48586   48601   48615   48629   48633   48657   48670   48700   48714   48728   48742   48756   48770   48785   48799   48813   48827   48841   308   48855   48869   48883   48897   48911   48926   48940   48954   48968   48982   309   48966   49010   49024   49038   49052   49066   49080   49094   49108   49122   49113   49150   49164   49178   49138   49323   49364   49360   49374   49388   49462   311   49276   49290   49204   49318   49332   49346   49360   49374   49388   49402   312   49415   49429   49443   49457   49471   49485   49499   49513   49527   49541   313   49554   49568   49568   49569   49564   49683   49661   49683   49665   49679   314   49693   49707   49771   49734   49748   49762   49776   49790   49803   49817   315   49831   49845   49895   49872   49886   49900   49914   49927   49941   49957   315   49831   49845   49959   49982   49986   50010   50024   50037   50051   50065   50079   50092   50037   50051   50065   50079   50092   50038   50050   500515   50529   50542   50566   50569   50583   50566   50679   506229   50515   50529   50542   50566   50680   50680   50693   50097   50712   50745   50765   50769   50785   50769   50712   50745   50765   50769   50783   50661   50640   50624   50627   50785   50738   50755   50755   50769   50785											l ——— l
302   49001   48015   48029   48044   48058   48073   48087   48101   48116   48130   48144   48159   48173   48187   48202   48216   48230   48244   48259   48273   48287   48302   48444   48458   48473   48467   48515   48530   48544   48558   306   48572   48586   48601   48615   48629   48643   48657   48671   48686   48700   48714   48728   48742   48756   48770   48785   48794   48813   48827   48401   48116   48130   48141   48181											
303											
304   48287   48302   48316   48330   48344   48359   48373   48387   48401   48416   305   48540   48444   48458   48473   48487   48501   48615   48650   48572   48586   48601   48615   48629   48643   48657   48671   48686   48700   307   48714   48728   48742   48756   48770   48785   48799   48813   48827   48841   308   48855   48869   48883   48897   48911   48926   48940   48954   48968   48982   309   48996   49010   49024   49038   49052   49066   49080   49094   49108   49122   49114   49164   49178   49192   49206   49230   49234   49248   49248   311   49276   49290   49344   49418   49332   49346   49360   49374   49388   49402   312   49415   49429   49443   49457   49471   49485   49499   49513   49527   49541   313   49554   49568   49582   49596   49610   49624   49638   49651   49665   49679   314   49693   49707   49721   49734   49748   49762   49776   49790   49803   49811   49969   49982   49996   50010   50024   50037   50051   50065   50079   50092   317   50106   50120   50133   50147   50161   50174   50188   50202   50215   50029   318   50243   50256   50270   50284   50037   50051   50065   50079   50092   319   50379   50393   50466   50420   50433   50447   50461   50474   50488   50501   320   50515   50529   50542   50556   50569   50583   50366   50800   50934   50947   50961   50745   50745   50745   50759   50772   322   50736   50947   50961   50745   50785   50745   50759   50772   322   50736   50947   50961   50974   50987   51001   51014   51028   51041   5127   51455   51488   51402   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51415   51428   51401   332   52114   52127   52140   52284   52297   52310   52323   52336   52345   52257   52240   52244   52257   52240   52245   52257   52240   52245   52257   52240   52245   52257   52240   52245   52257   52266   52679   52585   52666   52679   52666   52679   52985   52985											
305											
306											
307   48714   48728   48742   48756   48770   48785   48799   48813   48827   48841   308   48855   48869   48833   48897   48911   48926   48940   48954   48968   48963   309   48966   49010   49024   49038   49052   49066   49080   49094   49108   49122   310   49136   49150   49164   49178   49192   49206   49220   49234   49248   49262   311   49276   49290   49304   49318   49332   49346   49360   49374   49388   49402   312   49415   49429   49443   49457   49471   49485   49499   49513   49527   49541   49634   49638   49657   49668   49658   49668   49668   49668   49668   49668   49678   49762   49776   49790   49817   313   49531   49845   49889   49872   49886   49900   49914   49927   49941   49955   316   49869   49982   49996   50010   50024   50037   50051   50065   50079   50092   50313   50347   50161   50174   50168   50222   50215   50229   318   50243   50256   50270   50284   50297   50311   50325   50338   50352   50365   50379   50393   50466   50420   50433   50447   50461   50474   50488   50501   320   50515   50664   50678   50691   50705   50718   50732   50745   50759   50772   322   50736   50799   50813   50826   50840   50853   50866   50880   50893   50907   5022   51215   51228   51285   51285   51285   51285   51285   51386   51292   51315   51288   51242   51255   51268   51282   51295   51308   326   51375   51468   51687   51640   51673   51645   51687   51640   51673   51645   51685   51685   51878   51891   51904   51917   51930   51943   51957   51970   331   51983   51996   52009   52022   52036   52048   52061   52075   52088   52101   332   52114   52127   52140   52153   52666   52679   52281   52233   52234   52257   52270   52284   52297   52310   52323   52365   52446   52477   52492   335   52264   52267   52500   52643   52673   52666   52679   52994   53007   338   52892   52905   52917   52930   52943   52956   52969   52982   52994   53007   338   52892   52905   52917   52930   52943   52956   52669   52682   52994   53007   338   52892   52905   52917   5											
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309											
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311         49276         49290         49304         49318         49332         49346         49360         49374         49388         49402           312         49415         49429         49443         49447         49471         49485         49499         49513         49527         49541           313         49554         49568         49582         49596         49610         49624         49638         49671         49665         49679           314         49631         49845         49859         49748         49762         49776         49790         49801         49817           315         49831         49845         49859         49872         49886         49900         49914         49927         49941         49955           316         49969         49982         49996         50010         50024         50037         50061         50065         50079         50079           317         50106         50125         50133         50147         50161         50174         50188         50022         50215         50229           318         50243         50266         50270         50433         50447         50461         <											
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313											
314   49693   49707   49721   49734   49748   49762   49776   49790   49803   49817   315   49831   49845   49859   49872   49886   49900   49914   49927   49941   49955   316   49969   49982   49996   50010   50024   50037   50051   50065   50079   50092   317   50106   50120   50133   50147   50161   50174   50188   50202   50215   50229   318   50243   50256   50270   50284   50297   50311   50325   50338   50352   50365   319   50379   50393   50406   50420   50433   50447   50461   50474   50488   50501   320   50515   50624   50678   50685   50569   50583   50596   50610   50623   50637   321   50651   50664   50678   50691   50705   50718   50732   50745   50759   50772   322   50786   50799   50813   50826   50840   50853   50866   50880   50893   50907   323   50920   50934   5047   50961   50974   50987   51001   51014   51028   51041   324   51055   51068   51081   51095   51108   51121   51135   51148   51162   51175   325   51138   51202   51215   51228   51242   51255   51268   51202   51295   51308   326   51322   51335   51348   51362   51375   51388   51402   51415   51428   51441   324   51055   51668   51614   51627   51640   51654   51667   51680   51693   51706   329   51720   51733   51746   51759   51772   51786   51799   51812   51825   51838   330   51851   51865   51878   51891   51996   52022   52035   52048   52061   52075   52088   52101   333   52244   52257   52270   52284   52297   52310   52323   52336   52349   52362   334   52375   52388   52401   52414   52427   52440   52453   52466   52479   52492   335   52644   52257   52270   52284   52297   52310   52323   52336   52349   52362   52375   52388   52401   52414   52427   52440   52453   52466   52479   52492   335   52664   52677   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660   52673   52660											
315											
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318         50243         50256         50270         50284         50297         50311         50325         50338         50352         50365           319         50379         50393         50406         50420         50433         50447         50461         50474         50488         50501           320         50515         50529         50642         50556         50569         50533         50596         50610         50623         50637           321         50651         50664         50679         50613         50826         50840         50853         50866         50880         50893         50907         50775         50771         30745         507759         507759         50777         3020         50934         50947         50961         50974         50987         51001         51014         51028         51041         304         51055         51068         51081         51095         51108         51121         51135         51148         51162         51175         322         51335         51348         51362         51375         51388         51402         51415         51428         51295         51308         51441         51455         51468 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>50037</td><td></td><td>50065</td><td></td><td></td></td<>							50037		50065		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50106	50120	50133	50147	50161	50174	50188	50202	50215	
320         50515         50529         50542         50556         50569         50583         50596         50610         50623         50637           321         50651         50664         50678         50691'         50705         50718         50732         50745         50759         50772           322         50786         50799         50813         50826         50840         50833         50866         50880         50893         50907           323         50920         50934         50947         50961         50974         50987         51001         51014         51028         51041           324         51955         51668         51081         51095         51108         51125         51282         51282         51282         51295         51308           326         51188         51202         51215         51228         51242         51255         51268         51282         51295         51308           326         51385         51348         51362         51375         51388         51402         51415         51428         51471         51428         51441         51625         51388         51402         51415         51428	318	50243	50256	50270	50284	50297	50311	50325	50338	50352	50365
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324         51055         54068         51081         51095         51108         51121         51135         51148         51162         51175           326         51382         51202         51215         51228         51242         51255         51288         51202         51295         51308           326         51322         51335         51348         51362         51375         51388         51402         51415         51428         51441           327         51455         51468         51481         51627         51640         51654         51667         51680         51693         51706           328         51587         51601         51614         51627         51640         51654         51667         51680         51693         51706           329         51720         51733         51746         51759         51772         51786         51799         51812         51825         51838           330         51851         51865         51878         51891         51904         51917         51930         51943         51957         51970           331         51983         51996         52099         52022         52035         <											
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326         51322         51335         51348         51362         51375         51388         51402         51415         51428         51441           327         51455         51468         51481         51495         51508         51521         51534         51548         51661         51574           328         51587         51601         51614         51627         51640         51654         51667         51600         51693         51706           329         51720         51733         51746         51759         51772         51786         51799         51812         51825         51838           330         51851         51865         51878         51891         51904         51917         51930         51943         51957         51970           331         51983         51996         52009         52022         52035         52048         52061         52075         52088         52101           332         52114         52127         52140         52153         52166         52179         52192         5205         52205         52205         52218         52231           333         52244         52257         52280 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
327         51455         51468         51481         51495         51508         51521         51534         51548         51561         51574           328         51587         51601         51614         51627         51640         51654         51667         51680         51693         51706           329         51720         51733         51746         51759         51772         51786         51799         51812         51825         51838           330         51851         51865         51878         51891         51904         51917         51930         51943         51957         51970           331         51983         51996         52009         52022         52035         52048         52061         52075         52088         52101           332         52114         52127         52140         52153         52166         52179         52192         52205         52088         52101           333         52244         52257         52270         52284         52297         52310         52323         52336         52349         52362           334         52575         52388         52401         52414         52427         <											
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330         51851         51865         51878         51891         51904         51917         51930         51943         51957         51970           331         51983         51996         52009         52022         52035         52048         52061         52075         52088         52101           332         52114         52127         52140         52153         52166         52179         52192         52205         52218         52231           333         52244         52257         52270         52284         52297         52310         52323         52336         52349         52362           334         52575         52517         52530         52543         52556         52569         52582         52595         52608         52621           336         52634         52647         52660         52673         52686         52699         52711         52724         52737         52760           337         52763         52776         52789         52802         52815         52827         52840         52853         52866         52699         52711         52724         52737         52760           337         52763         <											
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332         52114         52127         52140         52153         52166         52179         52192         5205         52218         52231           333         52244         52257         52270         52284         52297         52310         52323         52336         52349         52362           334         52275         52388         52401         52414         52427         52440         52453         52566         52569         52582         52595         52608         52491           335         52634         52647         52530         52543         52565         52569         52582         52595         52608         52621           336         52634         52647         52660         52673         52686         52699         52711         52724         52737         52750           337         52763         52776         52789         52802         52815         52827         52840         52253         52866         52679           338         52892         52905         52917         52930         52943         52956         52969         52962         52994         53007											
333         52244         52257         52270         52284         52297         52310         52323         52336         52349         52362           334         52375         52388         52401         52414         52427         52440         52453         52466         52479         52492           335         52504         52517         52530         52543         52556         52569         52582         52595         52608         52621           336         52634         52647         52660         52673         52686         52699         52711         52724         52737         52750           337         52763         52776         52789         52802         52815         52620         52640         52853         52866         52879           338         52892         52905         52917         52930         52943         52956         52969         52982         52994         53007											
334         52375         52388         52401         52414         52427         52440         52453         52466         52479         52492           335         52504         52517         52530         52543         52556         52569         52582         52595         52608         52621           336         52634         52647         52660         52673         52686         52699         52711         52724         52737         52750           337         52763         52776         52799         52802         52815         52827         52640         52853         52866         52879           338         52892         52905         52917         52930         52943         52956         52969         52982         52994         53007											
335         52504         52517         52530         52543         52556         52569         52582         52595         52608         52621           336         52634         52647         52660         52673         52686         52699         52711         52724         52737         52750           337         52763         52776         52789         52802         52815         52827         52640         52853         52866         52879           338         52892         52905         52917         52930         52943         52956         52969         52982         52994         53007											
336     52634     52647     52660     52673     52686     52699     52711     52724     52737     52750       337     52763     52776     52789     52802     52815     52827     52840     52853     52866     52879       338     52892     52905     52917     52930     52943     52956     52969     52982     52992     52994     53007											
337   52763   52776   52789   52802   52815   52827   52840   52853   52866   52879   338   52892   52905   52917   52930   52943   52956   52969   52982   52994   53007											
338   52892   52905   52917   52930   52943   52956   52969   52982   52994   53007											
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I	No.	0	1	. 2	3	4	5	6	7	8	9
I	340 341	53148 53275	53161 53288	53173 53301	53186 53314	53199 53326	53212 53339	53224 53352	53237 53364	53250 53377	53263 53390
I	342	53403	53415	53428	53441	53453	53466	53479	53491	53504	53517
I	343	53529	53542	53555	53567	53580	53593	53605	53618	53631	53643
ı	344	53656	53668	53681	53694	53706	53719	53732	53744	53757	53769
ı	345	53782	53794	53807	53820	53832	53845	53857	53870	53882	53895
ı	346	53908	53920	53933	53945	53958	53970	53983	53995	54008	54020
ı	347	54033	54045	54058	54070	54083	54095	54108	54120	54133	54145
I	348	<b>4</b> 158	54170	54183	54195	54208	54220	54233	54245	54258	54270
ı	349	54283	54295	54307	54320	54332	54345	54357	54370	54382	54394
ı	350	54407	54419	54432	54444	54456	54469	54481	54494	54506	54518
ł	351	54531	54543	54555	54568	54580	54593	54605	54617	54630	54642
ł	352	54654	54667	54679	54691	54704	54716	54728	54741	54753	54765
۱	353	54777	54790	54802	54814	54827	54839	54851	54864	54876	54888
1	354	54900	54913	54925	54937	54949	54962	54974	54986	54998	55011
ı	355	55023	55035	55047	55060	55072	55084	55096	55108	55121	55133
ı	356	55145	55157	55169	55182	55194	55206	55218	55230	55242	55255
1	357	55267	55279	55291	5530 <b>3</b>	55315	55328	55340	55352	55364	55376
1	358	55388	55400	55413	55425	55437	55449	55461	55473	55485	55497
ł	359	55509	55522	55534	55546	55558	55570	55582	55594	55606	55618
I	360	55630	55642	55654	55666	55678	55691	55703	55715	55727	55739
4	361	<b>557</b> 51	55763	55775	55787.	55799	55811	55823	55835	55847	55859
.1	362	55871	55883	55895	55907	55919 56038	55931	55943	55955	55967	55979
ı	363	55991	56003	56015	56027	56038	56050	56 <b>66</b> 2	58074	56086	56098
ı	364	56110	56122	56134	56146	56158	56170	56182	56194	56205	56217
ı	365	56229	56241	56253	56265	56277	56289	56301	56312	56324	56336
1	366	56348	56360	56372	56384	56396	56407	56419	56431	56443	56455
1	367	56467	56478	56490	56502,	56514	56526	56538	56549	56561	56573
I	368 369	56585 56703	56597 56714	56608 56726	56620 56738	56632 56750	56644	56656 56773	56667 56785	56679	56691 56808
I											1
1	370	56820	56832	56844	56855	56867	56879	56891	56902	56914	56926
I	371 372	56937 57054	56949 57066	56961 57078	56972 57089	56984 57101	56996 57113	57008 57124	57019 57136	57031 57148	57043
ı	373	57171	57183	57194	57206	57217	57229	57241	57252	57264	57159 57276
ı	374	57287	57299	57310	57322	57334	57345	57357	57368	57380	57392
į	375	57403	57415	57426	57438	57449	57461	57473	57484	57496	57507
I	376	57519	57530	57542	57553	57565	57576	57588	57600	57611	57623
ı	377	57034	57646	57657	57669	57680	57692	57703	57715	57726	57738
I	378	57749	57761	57772	57784	57795	57807	57818	57830	57841	57852
ł	379	57864	57875	57887	57898	57910	57921	57933	57944	57955	57967
ı	380	57978	57990	58001	58013	58024	58035	58047	58058	58070	58081
	381	58092	58104	58115	58127	58138	58149	58161	58172	58184	58195
	382	58206	58218	58229	58240	58252	58263	58274	58296	58297	58309
1	383	58320	58331	58343	58354	58365	58377	58388	58399	58410	58422
	384	58433	58444	58456	58467	58478	58490	58501	58512	58524	58535
	385	58546	58557	58569	58580	58591	58602	58614	58625	58636	58647
١	386	58659	58670	58681	58692	58704	58715	58726	58737	58749	58760
	387	58771	58782	.58794	58805	58816	58827	58838	58850	58861	58872
ı	388	58883	58894	58906	58917	58928	58939	58950	58961	58973	58984
ı	389	58995	59006	59017	59028	59040	59051	59062	59073	59084	59095
ı	390	59106	59118	59129	59140	59151	59162	59173	59184	59195	59207
ı	391	59218	59229	59240	59251	59262	59273	59284	59295	59306	59318
1	392	59329	59340	59351	59362	59373	59384	59395	59406	59417	59428
Į	393	59439	59450	59461	59472	59483	59494	59506	59517	59528	59539
1	394 395	59 <b>5</b> 50 59660	59561 59671	595 <b>72</b> 59682	59583 59693	59594	59605 59715	59616 59726	59627 59737	59638 59748	596.19 59759
į	396	59770	59780	59682	59802	59704 59813	59824	59835	59846	59857	59868
	397	59879	59890	59901	59912	59923	59934	59945	59956	59966	59977
į	398	59988	59999	60010	60021	60032	60043	60054	60065	60076	60086
ı	399		60108	60119			60152	60163		60184	60195
1	000	, 50037	. 00100	, 00113	. 00130	00141	. 00102	, 00103	, 00110	, 00103	00,100

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	No.	0	1	2	3	4	5	6	7	8	9
Į	400	60206	60217	60228	60239	60249	60260	60271	60282	60293	60304
1	401	60314	60325	60336	60347	60358	60369	60379	60390	60401	60412
ı	402	60423	60433	60444	60455	60466	60477	60487	60498	60509	60520
1	403	60531	60541	60552	60563	60574	60584	60595	60606	60617	60627
1	404	60638	60649	60660	60670	60681	60692	60703	60713	60724	60735
1	405	60746	60756	60767	60778	60788	60799	60810	60821	60831	60842
ı	406	60853	60863	60874	60885	60895	60906	60917	60927	60938	60949
1	407	60959	60970	60981	60991	61002	61013	61023	61034	61045	61055
1	408	61066	61077	61087	61098	61109	61119	61130	61140	61151	61162
	409	61172	61183	61194	61204	61215	61225	61236	61247	61257	01268
	410	61278	61289	61300	61310	61321	$\overline{61331}$	61342	61352	61363	61374
1	411	61384	61395	61405	61416	61426	61437	61448	61458	61469	61479
1	412	61490	61500	61511	61521	61532	61542	61553	61563	61574	61584
1	413	61595	61606	61616	61627	61637	61648	61658	61669	61679	61690
ı	414	61700	61711	61721	61731	61742	61752	61763	61773	61784	61794
1	415	61805	61815	61826	61836.	61847	61857	61868	61878	61888	61899
ı	416	61909	61920	61930	61941	6.1951	61962	61972	61982	61993	62003
ł	417	62014	62024	62034	62045	62055	62066	62076	62086	62097	62107
1	418	62118	62128	62138	62149	62159	62170	62180	62190	62201	62211
I	419	62221	62232	62242	62252	62263	62273	62284	62294	62304	62315
1											1
1	420	62325	62335	62346	62356	62366	62377	62387	62397	62408	62418
1	421	62428	62439	62449	62459	62469	62480	62490	62500	62511	62521
1	422	62531	62542	62552	62562	62572	62583	62593	62603	62613	62624
ı	423	62634	62644.	62655	62665	62675	62685	62696	62706	62716	62726
1	424	62737	62747	62757	62767	62778	62788	62798	62808	62818	62829
1	425	62839	62849	62859	62870	62880	62890	62900	62910	62921	62931
1	426	62941	62951	62961	62972	62982	62992	63002	63012	63022	63033
1	427	63043	63053	63063	63073	63083	63094	63104	63114	63124	63134
1	428	63144	63155	63165	63175	63185	63195	63205	63216	63225	63236
ı	429	63246	63256	63266	63276	63286	63296	63306	63317	63327	63337
1	430	63347	63357	633 <b>67</b>	63377	63387	63397	63407	63417	63428	63438
ł	431	63448	63458	<b>63</b> 468	<b>6347</b> 8	63488	63498	63508	63518	63528	63538
ı	432	63548	63558	63568	63579	63589	63599	63609	63619	63629	63639
ı	433	63649	63659	63669	63679	63689	63699	63709	63719	63729	63739
ı	434	63749	63759	63769	63779	63789	63799	63809	63819	63829	63839
1	435 436	63849	63859	63869	63879	63889	63899	63909	63919	63929	63939
ı		63949	63959	63969	63979	<b>639</b> 88	63998	64008	64018	64028	64038
1	437	64048	64058	64068	64078	64088	64098	64108	64118	64128	64137
1	438	64147	64157	64167	64177	64187	64197	64207	64217	64227	64237
1	439	64246	64256	64266	64276	64286	64296	64306	64316	64326	64335
1	440	64345	64355	64365	64375	64385	64395	64404	64414	64424	64434
ı	441	64444	64454	64464	64473	64483	64493	64503	64513	64523	64532
ı	442	64542	645 <u>5</u> 2	64562	64572	64582	64591	64601.	64611	64621	64631
1	443	64640	64650	64660	64670	64680	64689	64699	64709	64719	64729
1	444	64738	64748	64758	64768	64777	64787	64797	64807	64816	64826
ı	445	64836	64846	64856	64865	64875	64885	64895	64904	64914	64924
ı	446	64933	64943	64953	64963	64972	64982	64992	65002	65011	65021
ı	447	65031	65040	65050	6506P	65070	65079	65089	65099	65108	65118
1	448	65128	65137	65147	65157	65167	65176	65186	65196	65205	65215
ı	449	65225	65234	65244	65254	65263	65273	65283	65292	65302	65312
ı	450	65321	65331	65341	65350	65360	65369	65379	65389	65398	65408
ı	451	65418	65427	65437	65447	65456	65466	65475	65485	65495	65504
ı	452	65514	<b>6</b> 5523	65533	65543	65552	65562	65571	65581	65591	65600
ı	453	65610	65619	65629	65639	65648	65658	65667	65677	65686	65696
j	454	65706	65715	65725	65734	65744	<b>6</b> 5753	65763	65772	65782	65792
I	455	65801	65811	65820	65830	65839	65849	65858	65868	65877	65887
ı	456	65896	65906	65916	65925	65935	65944	65954	65963	65973	65982
1	457	65992	66001	66011	66020	66030	66039	66049	66058	66068	66077
ı	458	66037	66096	66106	66115	66124	66134	66143	66153	66162	66172
ı	459	66181	66191		66210	66219	66229	66238	66247	66257	66266
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461   66370   66380   66380   66380   66380   66487   66427   66426   66445   66445   64446   66446   66446   66447   66643   66496   66590   66506   66511   66521   66523   66523   66524   66633   66644   66652   66661   66671   66680   66689   66696   66601   66671   66680   66696	قسس	<u> </u>									-
461   68370   68380   68390   68398   68498   6847   66427   66436   66445   66645   66651   66522   66644   66645   66665   66666   66676   66667   66697   67600   67014   67147   67127   67136   67135	No	. 0	1	2	37	4 .	5	6	7	8	9
462   66464   66474   66483   66492   66595   66511   66521   66523   66543   66444   66622   66615   66614   66671   66686   66685   66614   66622   66681   66681   66887   66897   67098   67099   67108   67108   67108   67145   67145   67145   67145   67145   67145   67127   67128											66361
464					66398						
465   66674   66671   66680   66689   66699   66708   66717   66727   66727     466   66639   66648   66857   66867   66876   66881   66890   66891     467   66939   66941   66950   66969   66969   66978   66997   6690     468   67025   67034   67043   67052   67062   67071   6708   67099   67104     468   67025   67014   67043   67052   67062   67071   6708   67099   67104     470   67210   67219   67228   67227   67247   67256   67255   67367   67374     470   67210   67211   67321   67321   67330   67339   67348   67357   67367   67368     471   67394   67403   67413   67422   67431   67440   67449   67459   67468   67454     473   67486   67495   67504   67514   67552   67532   67514   67550   67560   6754     475   67669   67679   67698   67697   67798   67796   67716   67733   67334   67484     476   67761   67770   67779   67788   67397   67386   67897   67916   67794     477   67852   67861   67870   67879   67988   67997   88006   68015   88094     481   68215   68224   68233   68342   68315   68329   68378   68397   68106   68114     481   68215   68224   68233   68342   68351   68340   68494   68494   68494   68494   68494   68694   68691   68697   68006   68317   68364     485   68574   68583   68592   68671   68592   68708   68377   68364   68614   68690   68899   68998   68997   68006   68014     486   68664   68673   68681   68690   68894   68994   68993   68904   68914     487   68753   68762   68711   68780   68870   68894   68994   68994   68994     489   69991   69906   69914   69923   69924   69940   69948   69900   69014     490   69020   69028   69037   69046   69053   69040   69049   69948   69957   69966   69071   69040   69											
466   66745   66756   66876   66877   66876   66885   66894   66904   66913   66824   4676   66892   66941   66950   66960   66969   66987   66987   66997   66997   67099   67099   67104   4717   67127   67127   67128   67136   67145   67154   67154   67173   67182   67214   470   67210   67219   67228   67237   67247   67256   67256   67277   67284   67339   67433   67435   67435   67435   67435   67435   67339   67440   67439   67430   67413   67422   67430   67440   67449   67459   67504   67514   67523   67534   67459   67504   67514   67523   67535   67565   67666   67614   67624   67633   67642   67651   67664   475   67689   67679   67596   67606   67614   67624   67633   67642   67651   67664   475   67689   67679   67889   67879   67889   67879   67889   67879   67889   67879   67889   67879   67889   67899											
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470   67117   67127   67136   67145   67154   67164   67173   67182   67228   67227   67226   67230   67302   67311   67321   67320   67330   67339   67346   67455   67567   67367   67367   67367   67368   473   67446   67449   67449   67449   67449   67449   67449   67449   67449   67459   67468   67474   473   67466   67576   67596   67605   67614   67624   67633   67642   67631   67642   67631   475   67669   67679   67688   67697   67676   67776   67776   67776   67776   67776   67776   67777   67788   67797   67806   67915   67825   67384   67943   67943   68043   68052   68061   68070   68079   68006   68097   68006   68097   68064   68043   68043   68043   68043   68044   68432   68323   68324   68374   68354   68363   68364   68373   63861   68801   68810   68814   68845   68494   68458   68874   68864   68861   68890   68806   68807   68864   68864   68873   68861   68801   68810   68812   68816   68873   68844   68845   68844   68845   68844   68885   68844   68885   68874   68943   68940   6894											
472 67302 67311 67321 67320 67330 67348 67357 67356 67366 67354 67436 67449 67439 67438 67443 67543 67543 67544 67551 67564 67514 67523 67532 67534 67550 67560 67564 67514 67552 67532 67532 67534 67550 67560 67564 475 67669 67679 67688 67674 67660 67715 67724 67733 67742 67734 67733 67742 67734 67735 67746 67716 67716 67770 67779 67788 67797 67906 67815 67825 67834 67824 67834 67	41	- 1			l	1			1		
472   67394   67403   67405   67492   67440   67440   67449   67445   67468   67447   475   67686   67657   67596   67605   67614   67523   67532   67541   67550   67660   67644   475   67669   67679   67688   67667   67760   67715   67753   67742   67754   476   67770   67779   67788   67797   67806   67815   67825   67861   67670   67879   67888   67897   67906   67916   67925   67834   67943   67952   67961   67970   67979   67988   67997   68006   68015   68024   68043   68052   68061   68070   68074   68088   68097   68080   68071   68073   68084   68043   68043   68323   68324   68323   68324   68323   68324   68323   68324   68325   68345   68325   6834											67293
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474   67578   67567   67596   67605   67614   67624   67633   67642   67651   67667   475   67669   67679   67688   67697   67705   67715   67724   67733   67742   6773   476   67761   67770   67788   67797   67806   67815   67825   67842   6784   6784   67847   67852   67861   67870   67879   67886   67897   67986   67916   67925   6793   479   67834   68034   68052   68061   68070   68079   68086   68097   68106   6811   481   69215   68224   68233   68242   68233   68242   68233   68242   68233   68244   68233   68242   68233   68242   68233   68242   68233   68244   68232   68234   68236   68260   68260   68267   682								67449	67459	67468	67477
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	•										68024
481   69215   68224   68233   68324   68251   68260   68269   68278   68287   68287   68364   483   68305   68404   68413   68424   68445   68445   68456   68574   68502   68511   68520   68529   68538   68547   68556   68564   485   68574   68563   68681   68690   68699   68708   68776   68766   68735   68762   68771   68780   68789   68797   68806   68815   68860   68869   68878   68895   68904   68913   68840   68842   68851   68860   68869   68878   68895   68904   68913   68940   68949   68958   68966   68975   68984   68993   69002   69014   490   69020   69028   69037   69046   69055   69064   69073   69082   69095   69044   69170   6917	479	68034	68043	68052	68061	68070	68079	68088	68097	68106	68115
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483   68395   68404   68403   68402   68511   68520   68529   68538   68547   68566   68564   68574   68563   68563   68592   68601   68610   68628   68637   68666   68664   68673   68681   68689   68788   68787   68765   68762   68771   68780   68789   68787   68806   68815   68824   68831   68869   68869   68878   68896   68894   68894   68895   68869   68869   68866   68895   68894   68931   68940   68949   68948   68958   68966   68875   68964   68958   68904   69117   69126   69135   69144   69152   69161   69170   69187   69187   69205   69214   69223   69224   69223   69241   69249   69925   69267   69274   69333   69381   69390   69399   69399   69399   69388   69346   69438   69437   69468   69478   69468   69478   69468   69557   69566   69574   69583   69594   69609	482	68305	68314	68323	68332	68341	68350	68359	68368	68377	68386
484			68404	68413		68431			68458	68467	68476
486   68664   68673   68681   68690   68799   68707   68706   68717   68726   68735   6874   68753   68747   68753   68747   68784   68842   68851   68860   68869   68876   68886   68895   68904   68913   6894   68949   68958   68966   68875   68984   68931   68940   68949   68958   68966   68875   68984   68933   69002   69014   69108   69117   69126   69135   69144   69152   69161   69170   69179   6918   492   69197   69205   69214   69223   69232   69241   69249   69258   69367   69344   69373   69381   69390   69399   69408   69417   69425   69434   69434   69434   69454   49578   69461   69469   69478   69487   69486   69548   69557   69566   69574   69583   69592   69601   69609   69614   69653   69662   69671   69679   69688   69697   69708   69732   69732   69740   69749   69758   69679   69688   69697   69704   69732   69732   69740   69749   69758   69676   69775   69784   69793   69804   69927   70001   70010   70018   70027   70036   70044   70053   7006   70070   70079   70088   70096   70010   70010   70018   70029   70217   70226   7023   70252   70260   70269   70278   70289   70299   70217   70226   7023   70340   70458   70458   70467   70475   70484   70482   70441   70483   70487   70482   70481   70482   70481   70482   70481   70482   70481   70482   70481   70482   70683   70664   70655   70668   70568   70568   70568   70568   70568   70568   70568   70568   70568   70568   70568   70568   70669   70688   70670   70709   70984   70985   70986   70996   70714   70123   70731   70740	484	68485	68494	68502	68511	68520		68538	68547	68556	68565
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489	487	68753	68762	68771	68780	68789	68797	68806	68815		68833
190											68922
491   69108   69117   69126   69135   69144   69152   69161   69170   69179   69184   692   69197   69205   69214   69223   69232   69241   69249   69258   69267   69273   69381   69380   69380   69380   69380   69380   69380   69380   69380   69380   69381   69390   69399   69408   69417   69425   69434   69434   69443   69454   495   69461   69469   69478   69487   69486   69548   69552   69561   69562   69670   69504   69513   69522   69531   69524   69538   69723   69732   69740   69748   69758   69767   69775   69784   69793   69804   69758   69862   69871   69809   69819   69819   69927   69938   69940   69949   69958   69967   69971   69984   69980   69914   69923   69932   69940   69949   69958   69966   69975   69	489	68931	68940	68949	68958	68966	68975	68984	68993	· ——	69011
492   69197   69205   69214   69223   69232   69241   69249   69258   69267	490	69020	69028	69037	89046	69055	69064	69073			69099
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496											69452
407   6035   69644   69653   69662   69671   69679   69688   69677   69705   69714   6988   69723   69732   69740   69749   69758   69767   69775   69784   69793   6980   69810   69819   69827   69836   69932   69932   69940   69949   69958   69968   69987   69986   69977   69986   69977   69986   69977   69987   69987   69988   69932   69932   69932   69940   69949   69958   69968   69977   69988   69987   69988   6											69539
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501         69984         69992         70001         70010         70018         70027         70038         70044         70053         7006           502         70070         70079         70088         70096         70105         70114         70122         70131         70140         7014         70140         70140         70140         70140         70140         70140         70140         70140         70140         70140         70140         70140         70140         70120         70200         70217         70226         70226         70220         70295         70303         70312         70321         70322         70226         70235         70364         70372         70381         70389         70398         7040         70432         70441         70449         70488         70467         70475         70484         7049         70484         70457         70561         70569	TI			69827		69845	69854	69862	69871	69880	69888
502         70070         70079         70088         70096         70105         70114         70122         70131         70140         70145         70145         70174         70183         70191         70200         70209         70217         70226         70236         70236         70278         70286         70295         70203         70217         70226         70236         70260         70278         70286         70295         70303         70312         70331         70389         70338         70346         70355         70364         70372         70381         70389         70398         7040         70419         70458         70467         70475         70484         7049         70458         70467         70475         70484         7049         70501         70509         70518         70526         70535         70544         70552         70561         70569         7057         70561         70569         7057         70561         70569         7057         70561         70569         7057         70561         70630         70699         70601         70706         70714         70723         70731         70740         70740         70740         70740         70740         70740 <th></th> <th>1</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>69975</th>		1									69975
503   70157   70165   70174   70183   70191   70200   70209   70217   70226   70235   70243   70225   70260   70269   70278   70286   70295   70303   70312   70325   70329   70338   70346   70355   70364   70372   70381   70389   70389   70405   70415   70424   70432   70441   70449   70458   70467   70475   70484   7049   70501   70509   70518   70526   70535   70544   70552   70561   70569   70575   70501   70509   70612   70621   70629   70638   70646   70655   70665   70509   70572   70630   70699   70691   70706   70714   70723   70731   70740   70740   70740   70757   70766   70774   70798   70791   70800   70808   70817   70825   70835   70842   70851   70859   70868   70876   70885   70893   70902   70910   70915   70927   70935   70944   70552   70661   70969   70978   70966   70978   70960   70978											70062
504         70243         70252         70260         70269         70278         70286         70295         70303         70312         70325           505         70329         70338         70346         70355         70364         70372         70381         70389         70398         7049           506         70415         70424         70432         70441         70449         70458         70467         70475         70447         7049           507         70501         70509         70518         70526         70536         70544         70552         70561         70669         70569         70570         70629         70638         70646         70655         70666         70774         70706         70714         70723         70731         70740         7074           510         70757         70766         70774         70788         70791         70800         70808         70817         70825         70835           511         70842         70831         70859         70868         70876         70885         70893         70900         70908         70908         70908         70908         70908         70908         70908         70908											70148
505   70329   70338   70346   70355   70364   70372   70381   70389   70398   70405   70415   70424   70432   70441   70449   70458   70467   70475   70447   70455   70501   70509   70518   70526   70535   70544   70552   70551   70569   70575   70568   70568   70568   70568   70568   70568   70568   70668   70612   70629   70638   70646   70655   70668   70672   70630   70689   70697   70706   70714   70723   70731   70740   7074   70757   70766   70774   70798   70791   70800   70808   70817   70825   70835   70835   70835   70835   70835   70835   70835   70835   70835   70835   70902   70910											70234
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$											70321
507         70501         70509         70518         70526         70535         70544         70552         70561         70569         70569         70575         70603         70612         70621         70629         70638         70646         70655         7066         70676         70769         70706         70714         70723         70731         70740         7074         7074         70798         70791         70800         70808         70876         70871         70740         7074         70740         70740         70773         70731         70740         7074         70740         70740         70773         70808         70817         70808         70876         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70885         70893         70902         70910         7091         7080         70978         70986         70975         70969         70978         70986         70995         71000         71000         71000         71000         71000         71030         71107         71079 <th></th> <th>70406</th>											70406
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$											70578
510   70757   70766   70774   70798   70791   70800   70808   70817   70825   70838   70817   70842   70851   70859   70868   70876   70885   70893   70902   70910   70911   70921   70927   70935   70944   70952   70961   70969   70978   70986   70995   71002   71020   71029   71037   71046   71054   71063   71071   71079   71084   71186   71105   71113   71122   71130   71139   71147   71155   71164   71175   71175   71164   71175   71164											70663
511         70842         70851         70859         70868         70876         70885         70893         70902         70910         70915           512         70927         70935         70944         70952         70961         70969         70978         70986         70995         71005           513         74012         71029         71037         71046         71054         71071         71079         71081           514         71096         71105         71113         71122         71130         71139         71147         71155         71164         7117           515         71181         71189         71198         71206         71214         71223         71231         71240         71248         7125           516         71265         71273         71282         71290         71299         71307         71315         71342         71332         71342         71343         71416         71426         71450         71450         71458         71466         71475         71483         71492         71500         71500											·
513 74012 70935 70944 70952 70961 70969 70978 70986 70995 71005 7101 71020 71020 71037 71046 71054 71053 71071 71079 71085 7114 71196 71105 71113 71122 71130 71139 71147 71155 71164 71175 7155 71181 71189 71198 71206 71214 71223 71231 71240 71248 71255 716 71265 71273 71282 71290 71299 71307 71315 71324 71332 7134 7134 7134 71357 71366 71374 71383 71391 71399 71408 71416 71425 7158 71433 71441 71450 71458 71466 71475 71483 71492 71500 71500									70817	70825	70834
513 74012 70935 70944 70952 70961 70969 70978 70986 70995 71005 7101 71020 71020 71037 71046 71054 71053 71071 71079 71085 7114 71196 71105 71113 71122 71130 71139 71147 71155 71164 71175 7155 71181 71189 71198 71206 71214 71223 71231 71240 71248 71255 716 71265 71273 71282 71290 71299 71307 71315 71324 71332 7134 7134 7134 71357 71366 71374 71383 71391 71399 71408 71416 71425 7158 71433 71441 71450 71458 71466 71475 71483 71492 71500 71500				70859	70868	70876	70885		70902,	70910	70919
513   74012   71020   71029   71037   71046   71054   71063   71071   71079   71085   71108   71105   71113   71122   71130   71139   71147   71155   71164   71175   71184   71155   71184   71157   71184   71157   71184   71157   71184   71187									70986	70995	71003
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516     71265     71273     71282     71290     71299     71307     71315     71324     71332     7134       517     71349     71357     71366     71374     71383     71391     71399     71408     71416     7142       518     71433     71441     71450     71458     71466     71475     71483     71492     71500     71500											71172
517   71349   71357   71366   71374   71383   71391   71399   71408   71416   7142   518   71433   71441   71450   71458   71466   71475   71483   71492   71500   71500											71257
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519   71517   71525   71533   71542   71550   71559   71567   71575   71584   71599											71508
	519	71517	71525	71533	71542	71550	71559	71567	71575	71584	71592

No.	0	1	2	3	4	5
400	60206	60217	60228	60239	60249	6026
401	60314	60325	60336	60347	60358	6036
402	60423	60433	60444	60455	60466	6047
403	60531	60541	60552	60563	60574	6058
404	60638	60649	60660	60670	60631	6069
405	60746	60756	60767	60778	60788	6079
406	60853	60863	60874	60885	60895	6090
407	60959	60970	60981	60991	61002	6101
408	61066	61077	61087	61098	61109	6111
409	61172	61183	61194	61204	61215	6122
410	61278	61289	61300	61310	61321	6133
411	61334	61395	61405	61416	61426	6143
412	61490	61500	61511	61521	61532	6154
413	61595	61606	61616	61627	61637	6164
414	61700	61711	61721	61731	61742	6175
415	61805	61815	61826	61836	61847	6185
416	61909 62014	61920	61930	61941	6.1951	6196
418	62118	62128	62034 62138	62045	62055 62159	6206
419	62221	62232	62242	62252	62263	6217
-	Territoria .	-	-			-
420	62325	62335 62439	62346	62356	62366	6237
422	62428 62531	62542	62449	62459 62562	62469 62572	6248
423		62644		62665	62675	6258
424	62737	62747	62757	62767	62778	6278
425	62839	62849	62859	62870	62880	6289
426	62941	62951	62961	62972	62982	6299
427	63043	63053	63063		63083	6309
428	63144	63155	63165	63175	63185	6319
429	63246	63256	63266	63276	63286	6329
430	63347	63357	63367	63377	63387	6339
431	63448	63458	63468	63478	63488	6349
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133	63649	63659	63669	63679	63689	6369
434	63749	63759	63769	63779	63789	6379
435	63849	63859	63869	62879	63889	6339
436	63949	63959	63969	63979	63988	6399
437	64048	64058	64068	64078	64088	6409
438	64147	64157	64167	64177	64187	6419
439	64246	64256	64266	64276	64286	6429
440	64345	64355	64365	64375	64385	6439
441	64444	64454	61464	64473	64483	6449
442	64542	64552	64562	64572	64582	6459
443	64640	64650	64660	64670	64680	6488
444	64738	64748		64768	64777	-
445	64836	64846	64856	64865	6487	
446	64933	64943	64953	64963	64	
447	65031 65128	65040	65050	65060		
448	65225	65234	65147	65157		
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450	65321	65331	65341 65437	1		
451	65418	65427	DIGHT			
462	65514	65619	655			
453	65796	65715	6			
455	65801	65811				
456	65896	6590				
457	65902	66001				
458	66097	6609/	-			
450	66181	6612				

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80 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				6	7	8	9
AGE SECTION			10	76388	76395	76403	76410
461 665			5	76462	76470	76477	76485
400 / Mills			30	76537	76545	76552	76559
1			14.	76612	76619	76626	76634 76708
			33	76686 76760	76693 76768	76701 76775	76782
The second second			7	76834	76842	76849	76856
FAT COLUMN			111	76908	76916	76923	76930
A COLUMN TO THE REAL PROPERTY.			75	76982	76989	76997	77004
a comment			18	77056	77063	77070	77078
10,0000				77129	77137	77144	77151
A COLUMN	-		95	77203	77210	77217	77225
Section in the			172.6	77276	77283	77291	77298
			-15	77349	77357 77430	77364 77437	77371
0.00			- 13	77495	77503	77510	77517
4000	-		561	77568	77576	77583	77590
10000			7634	77641	77648	77656	77663
A DE TO THE OWN			1706	77714	77721	77728	77735
400000			7779	77786	77793	77801	77808
O ES IN IN IN			77851	77859	77866	77873	77880
PROTEIN			77924	77931	77938	77945	77952
S 44 TO 100		- 41	77996	78003	78010	78017 78089	78025 78097
K-0		- 4	78068 78140	78075 78147	78082 78154	78161	78168
		15	78211	78219	78226	78233	78240
-		(6)	78283	78290	78297	78305	78312
ENGINEER OF STREET		117	78355	78362	78369	78376	78383
		119	78426	78433	78440	78447	78455
A COLUMN TWO IS NOT THE OWNER.		490	78497	78504	78512	78519	78526
PRESENT.		240.0	78569	78576	78583	78590	78597
		19633 18704	78640	78647	78654 78725	78661 78732	78668 78739
-		78774	78711 78781	78718 78789	78796	78803	78810
		78845	78852	78859	78866	78873	78880
-		78916	78923	78930	78937	78944	78951
	- 10	78986	78993	79000	79007	79014	79021
1	-01	79057	79064	79071	79078	79085	79092
	=0	79127	79134	79141	79148	79155	79162
	30)	79197	79204	79211	79218	79225	79232
	330	79267	79274	79281	79288	79295	79302
	400	79337	79344 79414	79351 79421	79358 79428	79365 79435	79372 79442
	9470	79477	79484	79491	79498	79505	79511
	19539	79546	79553	79560	79567	79574	79581
	79609	79616	79623	79630	79637	79644	79650
000	79678	79685	79692	79699	79706	79713	79720
-	79748	79754	79761	79768	79775	79782	79789
	79817 79886	79824 79893	79831 79900	79837 79906	79844 79913	79851	79858 79927
	79955	79962	79969	79975	79982	79989	79996
	80024	80030	80037	80044	80051	80058	80065
	5 80092	80099	80106	80113	80120	80127	80134
400	4 80161	80168	80175	80182	80188	80195	80202
	23 00229	80236	80243	80250	80257	80264	80271
	91 80298	90305	80312	80318	80325	80332	80339
	159 80366 128 80434	80373	80380 80448	80387 80455	80393	80400	80407
	496 80502	80509	80516	80523	80530	80536	80543
	0564 80570	80577		80591			80611
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No.	0	1	2	3	4	5	6	. 4	8	9
520	71600	71609	71617	71625	71634	71642	71650	71669	71667	71675
521	71684	71692	71700	71709	71717	71725	71734	71742	71750	71759
5 <b>22</b> 5 <b>2</b> 3	71767	71775	71784	71792	71800	71809	71817	71825	71834	71842
524	71850 71933	71858 71941	71867 71950	71875 71958	71883 71966	71892	71900	71908	71917	71925
525	72016	72024	72032	72041	72049	71975 72057	71983	71991 72074	71999	72008
526	72099	72107	72115	72123	72132	72140	72066 72148	72156	72082 72165	72090 72173
527	72181	72189	72198	72206	72214	72222	72230	72239	72247	72255
528	72263	72272	72280	72288	72296	72304	72313	72321	72329	72337
529	<b>72</b> 346	72354	72362	72370	72378	72387	72395	72403	72411	72419
530	72428	72436	72444	72452	72460	72469	72477	72485	72493	72501
531	72509	72518	72526	72534	72542	72550	72558	72567	72575	<b>B</b> 3
532	72591	72599	72607	72616	72624	72632	72640	72648	72656	72665
533 534	72673	72681	72689	72697	72705	72713	72722	72730	72738	72746
535	72754 72835	72762 72843	72770 72852	72779 72860	72787 72868	72795	72803	72811	72819	72827
536	72916	72925	72933	72941	72949	72876 72957	72884 72965	72892 72973	72900 72981	72908
537	72997	73006	73014	73022	73030	73038	73046	73054	73062	72989 73070
538	73078	73086	73094	73102	73111	73119	73127	73135	73143	73151
.539	73159	73167	73175	73183	73191	73199	73207	73215	73223	73231
540	73239	73247	73255	73263	73272	73280	73288	73296	73304	73312
541	73320	73328	73336	73344	73352	73360	73368	73376	73384	73392
542	73400	73408	73416	73424	73432	78440	73448	73456	73464	73472
543	73480	73488	73496	73504	73512	73520	73528	73536	73544	73552
544	73560	73568	73576	73584	73592	73600	73608	73616	73624	73632
545 546	73640	73648	73656	73664	73672	73679	73687	73695	73703	73711
547	73719 73799	73727 73807	73735 73815	73743 73823	73751	73759	73767	73775	73783	73791
548	73878	73886	73894	73902	73830 73910	73838 73918	73846 73926	73854	73862	73870
549	73957	73965	73973	73981	73989	73997	74005	78933 74013	73941 74020	73949 74028
550	74036	74044	74052	74060	74068	74076	74084			I II
551	74115	74123	74131	74139	74147	74155	74162	74092 74170	74099 74178	74107 74186
552	74194	74202	74210	74218	74225	74233	74241	74249	74257	74265
553	74273	<b>\$4280</b>	74288	74296	74304	74312	74320	74327	74335	74343
554	74351	74359	74367	74374	74382	74390	74398	74406	74414	74421
555	74429	74437	74445	74453	74461	74468	74476	74484	74492	74500
556	74507	74515	74523	74531	74539	74547	74554	74562	74570	74578
557 558	74586 74663	74593 74671	74601	74609	74617	74624	74632	74640	74648	74658
559	74741	74749	74679 74757	74687 74764	74695 74742	74702 74780	74710 74788	74718	74726	74733
560	74819	74827		-				74796	74803	74811
561	74896	74904	74834 74912	74842 74920	74850 74927	74858 74935	74865 74943	74873	74881	74889
562	74974	74981	74989	74997	75005	75012	75020	74950 75028	74958	74966
563	75051	75059	75066	75074	75082	5089	75097	75105	75035 75113	75043 75120
564	75128	75136	75143	75151	75159	75166	75174	75182	75189	75197
565	75205	75213	75220	75228	75236	75243	75251	75259	75266	75274
566	75282	75289	75297	75305	75312	75320	75328	75335	75343	75351
567	75358	75366	75374	75381	75389	75397	75404	75412	75420	75427
568	75435	75442	75450	75458	75465	75473	75481	75 8	75496.	75504
569	75511	75519	75526	75534	75542	75549	75557	75565	75572	75580
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571 572	75664 75740	75671 75747	7567 <b>9</b> 75755	75686	75694	75702	75709	75717	75724	75732
573	75815	75823	75831	75762 75838	75770 75846	75778 75853	75785 75861	75793	75800	75808
574	75891	75899	75906	75914	75921	759 <b>29</b>	75937	75868 15044	75876 759 <b>62</b>	75884 75959
575	75967	75974	75982	75989	75997	76005	76012	76020	76027	76035
576	76042	76050	76057	76065	76072	76080	76087	76095	76103	76110
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578	76193	76200	76208	76215	76223	76230	76238	76245	76253	76260
579	76268	76275	76283	76290	76298	76305	76313	76320	76328	76335
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l	58 <b>0</b>	76343	76350	76358	76365	76373	76380	76388	76395	76403	76410
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1	587 588	76864 76938	76945	76953	76960	76893 76967	76975	76982	76916 76989	76997	77004
ı	589	77012	77019	77026	77034	77041	77048	77056	77063	77070	77078
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ı	592	77232	77240	77247	77254	77262	77269	77276	77283	77291	77298
1	593	77305	77313	77320	77327	77335	77342	77349	77357	77364	77371
1	594	77379	77386	77393	77401	77408	77415	77422	77430	77437	77444
	595	77452	77459	77466	77474	77481	77488	77495	77503	77510	77517
	596	77525	77532	77539	77546	77554	77561	77568	77576	77583	77590
	597 598	77597 77670	77605	77612 77685.	77619	77627	77634	77641	77648	77656 77728	71663
ı	599	77743	77677 77750	77757	77692 77764	77699	77706	77786	77793	77801	77808
ı	600	77815	77822	77830	77837					77873	77880
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	607	78319	78326	78333	78340	78347	78355	78362	78369	78376	78383
	608	78390	78398	78405	78412		78426	78433	78440	78447	78455
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	610	78533	78540	78547	78554	78561	785 <b>69</b>	78576	78583	78590	78597
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	615	78888	78895	78902	78909	78916	78923	78930	78937	78944	78951
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	617	79029	79036	79043	79050	79057	79064	79071	79078	79085	79092
	618	79099	79106	79113	79120	79127	79134	79141	79148	79155	79162
	619	79169	79176	79183	79190	79197	79204	79211	79218	79225	79232
	620	79239	79246	79253	79260	79267	79274	79281	79288	79295	79302
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1	623 624	79449 79518	79456	79463	79470	79477	79484	79491	79498	79505	79511
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į	634	-80209	80216	80223	80229	80236	80243	80250	80257	80264	80271
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643	80821	.80828	80835	80841	80848	80855	80862	80868	80875	80882
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649	81224	81231	81238	81245	81251	81258	81265	81271	81278	81285
F :						81325	81331	81338	81345	81351
650	81291	81298	81305	81311	81318	81325	81398	81405	81411	81418
651 652	81358 81425	81365	8137 <b>*</b> 81438	81378 81445	81385 81451	81458	81465	81471	81478	81485
	81491	81431 81498	81505	81511	81518	81525	81531	81538	81544	81551
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655	81624	815 <b>64</b> 81631	81637	81644	81651	81657	81664	81671	81677	81684
656	81690	81697	81704	81710	81717	81723	81730	81737	81743	81750
657	81757	81763	81770	81776	81783	81790	81796	81803	81809	81816
658	81823	81829	81836	81842	81849	81856	81862	81869	81875	81882
659	81889	81895	81902	81908	81915	81921	81928	81935	81941	81948
660	81954	81961	81968	81974	81981	81987	81994	82000	82007	82014
661	82020	82027	82033	82040	82046	82053	82060	82066	82073	82079
662	82086	82092	82099	82105	82112	82119	82125	82132	82138	82145
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667	82413	82419	82426	82432	82439	82445	82452	82458	82465	82471
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669	82543	82549	82556	82562	82569	82575	82582	82588	82595	82601
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671	82672	82679	82685	82692	82698	82705	82711	82718	82724	82730
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674	82866	82872	82879	82885	82892	82898	82905	82911	82918	82924
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678 679	831 <b>23</b> 8318 <b>7</b>	83129 83193	83136 83200	83142 83206	83213	83219	83225	83232	83238	83245
· —							83289	83296	83302	83308
680	83251	83257	83264	83270	83276	83283	83289	83296	83366	83372
681	83315	83321	83327	83334	83340 83404	83347 83410	83353	83423	83429	83436
682 683	83378 83442	83385 83448	83391 83455	83398 83461	83467	83474	83480	83487	83493	83499
684	83506	83512	83518	83525	83531	83537	83544	83550	83556	83563
685	83569	83575	83582	83588	83594		83607	83613	83620	83626
686	83632	83639	83645	83651	83658	83664	83670	83677	83683	83689
687	83696	83702	83708	83715	83721	83727	83734	83740	83746	83753
688	83759	83765	83771	83778	83784	83790	83797	83803	83809	83816
689	83822	83828	83835	83841	83847	83853	83860	83866	83872	83879
690	83885	83891	83897	83904	83910	83916	83923	83929	83935.	83942
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692	84011	84017	84023	84029	84036	84042	84048	84055	84061	84067
693	84073	84080	84086	84092	84098	84105	84 <b>1</b> 11	84117	84123	84130
694	84136	84142	84148		84161	84167	84173	84180	84186	84192
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696	84261	84267	84273	84280	34286	84292	84298	84305	84311	84317
627	84323	84330	84336	84342,	84348	84354	84361	84367	84373	84379
698	84386	84392	84398	84404	84410	84417	84423	84429	84435	84442
699	844 (3	84454	84460	84466	84473	84479	84485	84491	84497	84504

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No.	0	1	2	3	4	5	6	. 7	8	<b>'9</b>
700 701	84510 84572	84516 84578	845 <b>22</b> 84584	84528 84590	84535 84597	84541 84603	84547 84609	84563 84615	84559 84621	84566 84628
702	84634	84640	84646	84652	84658	84665	84671	84677	84683	84689
703	84696	84702	84708	84714	84720	84726	84733	84739	84745	84751
704	84757	84763	84770	84776	84782	84788	84794	84800	84807	84813
705	84819	84825	84831	84837	84844	84850	84856	84862	84868	84874
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707	84942	84948	84954	84960	84967	84973	84917 84979	84985	84991	84997
<b>70</b> 8	85003	85009	85016	85022	85028	85034	85040	85046	85052	85058
709	85 <b>065</b>	85071	85077	85083	85089	85095	85101	85107	85114	85120
710	85126	85132	85138	85144	85150	85156	85163	85169	85175	85181
711	85187	85193	85199	85205	85211	85217	85224	85230	85236	85242
712	85248	85254	85260	85266	85272	85278	85285	85291	85297	85303
713	85309	85315	85321	85327	85333	85339	85345	85352	85358	85364
714	85370	85376	85382	85388	85394	85400	85406	85412	85418	85425
715	85431	85437	85443	85449	85455	85461	85467	85473	85479	85485
716	85491	85497	85503	85509	85516	85523	85528	85534	85540	85546
717	85552	85558	85564	85570	85576	85582	85588	85594	85600	85606
718	85612 85673	85618	85625	85631	85637 85697	85643 85703	85649 85709	85655 85715	85661 85721	85667 85727
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720	85733	85739	7745	85751	85757	85763	85769	85775	85781	85788
721	85794	85800	85806	85812	85818	85824 85884	85830	45836 05006	85842 85902	85848
722 723	85854 85914	858 <b>6</b> 0 85 <b>92</b> 0	85866 85926	858 <b>72</b> 85932	85878 85938	85944	85890 85950	85896 85956	85962	85908 85968
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725	86034	86040	86046	86052	86058	86064	86070	86076	86082	86088
726	86094	86100	86106	86112	86118	86124	86130	86136		86147
727	86153	86159	86165	86171	86177	86183		86195	86201	86207
728	86213	86219	86225	86231	86237	86243		86255	86261	86267
729	86273	86279	86285	86291	86297	86303	86308	₿6314	86320	86326
730	86332	86338	86344	86350	86356	86362	86368	86374	86380	86386
731	86392	86398	86404	86410	86415	86421	86427	86433	86439	86445
732	86451	86457	86463	86469	86475	86481	86487	86493	86499	86504
733		86516	86522	86528	86534	86540		86552	86558	86564
734		86576	86581	86587	86593	86599		86611	86617	86623
735		86635	86641	86646	86652	86658		86670	86676	86682
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739		86812 86870	86817 86876	86882	86888	86894		86906	86911	86859 86917
740		86929	·	l ——	86947	1	. 1	1	l ———	
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749			87052					87081	87087	87035 87093
749			87111	87116				87140	87146	87151
744				87175		87186				
745			87227	87233				87256	87262	
740					87297	87303		87315	87320	
74				<b>127349</b>	87355	87361	87367	87373	87379	
748								87431	87437	87442
74	87448	87454			87471	87477	87483	87489	87495	87500
750					87529	87535	87541	87547	87552	87558
75										
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H	No.	0		. 2	.3	4	5	6	7	8	9
	760	88081	88087	88093	88098	88104	88110	88116	88121	88127	88133
H	761	88138	88144	88150	88156	88161	88167	88173	88178	88184	88190 88247
ı	762 763	88195 88252	88201 88258	88207 88264	88213 88270	88218 88275	88224 88261	88230 88287	88235 88292	88241 88298	88304
J	764	88309	88315	88321	88326	88332	88338	88343	88349	88355	88360
1	765	88366	88372	88377	88383	88389	88395	88400	88406	88412	88417
H	766	88423	88429	88434	98440	88446.		88457	88463	88468	88474
H	767	88480	88485	88491	88497	88502	88508	88513	88519	88525	88530
H	768	88536	88542	86547	88553	88559	88564	88570	88576	88581	88587
U	769	88593	88598	88604	88610	88615	88621	88627	88632	88638	88643
ł	770	88649	88655	88660	88666	88672	88677	88683	88689	88694	88700
H	771	88705	88711	88717	88722	88728	88734	88739	88745	88750	88756
1	772	88762	88767	88773	88779	88784	88790	88795	88801	88807	88812
ı	773	88818	88824	88829	88835	88840	88846	88852 88908	88857 88913	88863 88919	88868 88925
H	774 775	888 <b>74</b> 88930	88880 88936	88885 88941	88891 88947	88897 88953	88902 88958	88964	88969	88975	88981
H	776	88986	88992	88997	89003	89009	89014	89020	89025	89031	89037
ı	777	89042	89048	89053	89059	89064	89070	89076	89081	89087	89092
1	778	89098	89104	89109	89115	89120	89126	89131	89137	89143	89148
ı	779	89154	89159	89165	89170	89176	89182	89187	89193	89198	89204
ı	780	89209	89215	89221	89226	89232	89237	89243	89248	89254	89260
ı	781	89265	89271	89276	89282	89287	89293	89298	89304	89310	89315
1	782	89321	89326	89332	89337	89343	89348	89354	89360	89365	89371
H	783	89376	89382	89387	89393	89398	89404	89409	89415	89421	89426
I	784	89432	89437	89443 89408	89448 89504	89454 89509	89459 89515	89465 89 <b>52</b> 0	89470 895 <b>26</b>	89476 89531	89481 89537
ı	785	89487 89542	89492 89548	89553	89559	89564	89570	89575	89581	89586	89592
ı	786 787	89597	89603	89609	89614	89620	89625	89631	89636	89642	89647
ı	788	89653	89658	89664	89600	89675	89680	89686	89691	89697	89702
ı	789	89708	89713	89719	89724	89730	89735	89741	89746	89752	89757
ı	790	89763	89768	89774	89779	89785	89790	89796	89801	89807	89812
I	791	89818	89823	89829	89834	89840	89845	89851	89856	89862	89867
I	792	89873	89878	89883	89889	89894	89900	89905	89911	89916	89922
H	793	89927	89933	89938	89944	89949	89955	89960	89966	89971	89977
I	794	89982	89988	89993	89998	90004	90009	90015	90020	90026	90031
I	795	90037	90042	90048	90053	90059	90064	90069	90075	90080	90086 90140
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H	797 798	90146 90200	90151	90211	90217	90222	90227	90233	90238	90244	90249
	799	90255	90260	90266	90271	90276	90282	90287	90293	90298	90304
H	800	90309	90314	90320	90325	90331	90336	90342	90347	90352	90358
ı	801	90363	90369	90374	90380	90385	90390	90396	90401	90407	90412
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I	803	90472	90477	90482	90488	90493	90499	90504	90509	90515	90520
I	804	90526	90531	90536	90542	90547	90553	90558	90563	90569	90574
	805	90580	90585	90590	90596	90601	90607	90612	90617	90623	90628
	806	90634	90639	90644	90650	90655	90660	90666	90671 90725	90677 90730	90682 90736
ı	807	90687 90741	90693	90698	90703	90709	90714	90773	90779	90784	90789
	808 809	90741	90800	90806	90757	90816	90822	90827	90832	90838	90843
		90849	90854	90859	90865	90870	90875	0881	90886	90891	90897
I	810 811	90849	90854	90859	90918	90924	90929	90934	90940	90945	90950
	812	90956	90961	90966	90972	90977	90982	90988	90993	90998	91004
	813	91009	91014	91020	91025	91030	91036	91041	91046	91052	91057
	814	91062	91068	91073	91	91084	91089	91094	91100	91105	91110
	815	91116	91121	91126	91132	91137	91142	91148	91153	91158	91164
1	816	91169	91174	91180	91185	91190	91196	91201	91206	91212	91217
	817	91222	9123	91233	91238	91243	91249	91254	91259	91265 91318	91270 91323
ı	818	91275	91281	91286	91291	91297	91302	91307 91360	91312 91365	91371	91376
ı	819	91328	91334	91339	91344	91350	91355	91300	91300	. 919(1)	213101

	No.	0	1	2	3	4	5	6	7	8	9
ı	820	91381	91387	91392	91397	91403	91408	91413	91418	91424	91429
ł	821	91434	91440	91445	91450	91455	91461	91466	91471	91477	91482
I	822	91487	91492	91498	91503	91508	91514	91519	91524	91529	91535
1	823 824	91540 91593	91545 91598	91551 91603	91556 91609	91561 91614	91566 91619	915 <b>72</b> 916 <b>24</b>	91577 916 <b>3</b> 0	9158 <b>2</b> 916 <b>3</b> 5	91587 91640
١	825	91645	91651	91656	91661	91666	91672	91677	91682	91687	91693
1	826	91698	91703	91709	91714	91719	91724	91730	91735	91740	91745
ı	827	91751	91756	91761	91766	91772	91777	91782	91787	91793	91798
ł	828	91803	91808	91814	91819	91824	91829	91834	91840	91845	91850
۱	829	91855	91861	91866	91871	91876	91882	91887	91892	91897	91903
ł	830	91908	91913	91918	91924	91929	91934	91939	91944	91950	91955
i	831	91960	91965	91971	91976	91981	91986	91991	91997	92002	92007
ł	832 833	92012 92065	92018 92070	92023 92075	92028 92080	92033	92038 92091	92044 92096	92049 92101	92054 92106	92059 92111
ı	834	92117	92122	92127	92132	92137	92143	92148	92153	92158	92163
ı	835	92169	92174	92179	92184	92189	92195	92200	92205	92210	92215
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	837	92273	92278	92283	92288	92293	92298	92304	92309	92314	92319
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ı	839	92376	92381	92387	92392	92397	92402	92407	92412	92418	92423
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1	841 842	92480 92531	92485 92536	92490 92542	92495 92547	92500 92552	92505 92557	92511 92562	92516 92567	92521 92572	92526 92578
ı	843	92583	92588	92593	92598	92603	92609	92614	92619	92624	92629
1	844	92634	92639	92645	92650	92655	92660	92665	92670	92675	92681
ı	845	92686	92691	92696	92701	92706	92711	92716	92722	92727	92732
ı	846	92737	92742	92747	92752	92758	92763	92768	92773	92778	92783
1	847	92788	92793	92799	92804	92809	92814	92819	92824	92829	92834
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ı	849	92891	92896	92901	92906	92911	92916	92921		92932	92937
ł	850	92942	92947	92952	92957	92962	92967	92973	92978	92983	92988 93039
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ı	853	93095	93100	93105	93110	93115	93120	93125	93131	93136	93141
1	854	93146	93151	93156	93161	93166	93171	93176	93181	93186	93192
1	855	93197	93202	93207	93212	93217	93222	93227	93232	93237	93242
1	856	93247	93252	93258	93263	93268	93273	93278	93283	93288	93293
ł	857 858	93298 93349	93303 93354	93308 93359	93313 93364	93318 93369	93323 93374	93328 93379	93334 93384	93339 93389	93344 93394
1	859	93399	93404	93409	93414	93420	93425	93430	93435	93440	93445
ı	860	93450	93455	93460	93465	93470	93475	93480	93485	93490	93495
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	862	93551	93556	93561	93566	93571	93576	93581	93586	93591	93596
	863	93601	93606	93611	93616	93621	93626	93631	93636	93641	93646
ı	864	93651	93656	93661	93666	93671	93676	93682	93687	93692	93697
	865	93702	93707	93712	93717	93722	93727	93732	93737	93742	93747
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	872	94052	94057	94062	94067	94072	94077	94082	94086	94091	94096
1	873	94101	94106	94111	94116	94121	94126	94131	94136	94141	94146
Į	874	94151	94156	94161	94166	94171	94176	94181	94186	94191	94196
	875 876	94201 94250	94206	94211 94260	94216 94265	94221	94226 94275	94231 94280	94236	94240 94290	94245 94295
١.	877	94230	94305	94310	94205	94320	94325	94330	94335	94340	94345
	878	94349	94354	94359	94364	94369	94374	94379	94384	94389	94394
Į	879	94399	94404	94409		94419	94424	94429	94433	94438	94443

	No.	0	1	2	3	4	5	6	7	8	9
ı	880	94448	94453	94458	94463	94468	94473	94478	94483	94488	94493
1	881	94498	94503	94507	94512	94517	94522	94527	94532	94537	94542
ı	882	94547	94552	94557	94562	94567	94571	94576	94581	94586	94591
	883	94596	94601	94606	94611	94616	94621	94626	94630	94635	94640
ı	884	94645	94650	94655 94704	94660 94709	94665 94714	94670 94719	94675 94724	94680 94729	94685 94734	94689 94738
ı	885 886	94694 94743	94699 94748	94753	94758	94714	94768	94773	94778	94783	94736
1	887	94792	94797	94802	94807	94812	94817	94822	94827	94832	94836
1	888	94841	94846	94851	94856	94861	94866	94871	94876	94880	94885
1	889	94890	94895	94900	94905	94910	94915	94919	94924	94929	94934
1	890	94939	94944	94949	94954	94959	94963	94968	94973	94978	94983
1	891	94988	94993	94998	95002	95007	95012	95017	95022	95027	95032
ı	892	95036	95041	95046	95051	95056	95061	95066	95071	95075	95080
1	893	95085	95090	95095	95100	95105	95109	95114	95119	95124	95129
1	894	95134	95139	95143	95148	95153	95158	95163	95168	95173	95177
ı	895	95182	95187	95192	95197	95202	95207	95211	95216	95221	95226
1	896	95231	95236	95240	95245	95250	95255	95260	95265	95270	95274
ı	897 898	95279 95328	95284 95332	95289 95337	95294	95299	95303	95308	95313 95361	95318 95366	95323 95371
I	899	95376	95332	95386	95342 95390	95347 95395	95352 95400	95357 95405	95410	95300	95419
ı											
ı	900 901	95424 95472	95429 95477	95434 95482	95439 95487	95444 95492	95448 95497	95453 95501	95458 95506	95463 95511	95468 95516
1	902	95472	95525	95530	95535	95540	95545	95550	95554	95559	95564
I	903	95569	95574	95578	95583	95588	95593	95598	95602	95607	95612
1	904	95617	95622	95626	95631	95636	95641	95646	95650	95655	95660
ł	905	95665	95670	95674	95679	95684	95689	95694	95698	95703	95708
ı	906	95713	95718	95722	95727	95732	95737	95742	95746	95751	95756
ı	907	95761	95766	95770	95775	95780	95785	95789	95794	95799	95804
ł	908	95809	95813	95818	95823	95828	95832	95837	95842	95847	95852
I	909	95856	95861	95866	95871	95875	95880	95885	95890	95895	95899
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ı	911	95952	95957	95961	95966	95971	95976	95980	95985	95990	95995
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. 1	914	96142	96099 96147	96104 96152	96109 96156	96114 96161	96118 96166	96171	96175	96133 96180	96185
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ı	917	96237	96242	96246	96251	96256	96261	96265	96270	96275	96280
1	918	96284	96289	96294	96298	96303	96308	96313	96317	96322	96327
1	919	96332	96336	96341	96346	96350	96355	96360	96365	96369	96374
	920	96379	96384	96388	96393	96398	96402	96407	96412	96417	96421
1	921	96426	96431	96435	96440	96445	96450	9645		96464	96468
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1	924	96567	96572	96577	96581	96586	96591	96595	96600	96605	96609
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	926 927	96661 96708	96666 96713	96670 96717	96675	96680 96727	96685	96689	96694	96699 96745	96703 96750
1	928	96755	96759	96764	96769	96774	96731 96778	96736 96783	96741 96788	96792	96797
ı	929	96802	96806	96811	96816	96820	96825	96830	96834	96839	96844
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Į	931	96895	96900	96904	96909	96914	96918	96923	96928	96932	96937
ı	932	96942	96946	96951	96956	96960	96965	96970	96974	96979	96984
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1	934	97035	97039	97044	97049	97053	97058	97063	97067	97072	97077
1	935	97081	97086	97090	97095	97100	97104	97109	97114	97118	97123
1	936	97128	97132	97137	97142	97146	97151	97155	97160	97165	97169
J	937	97174	97179	97183	97188	97192	97197	97202	97206		97216
1	938 939	97220	97225	97230	97234	97239	97243	97248	97253	97257	97262
1	939	97267	97271	97276	97280	97285	97290	97294	97299	97304	97308

4											
i	No.	0	1	2	3	4	5	6	7	8	9
1	940	97313	97317	97322	97327	97331	97336	97340	97345	97350	97354
I	941	97359	97364	97368	97373	97377	97382	97387	97391	97396	97400
ł	942	97405	97410	97414	97419	97424	97428 97474	97433	97437	97442	97447
I	943 944	97451 97497	97456 97502	97460 97506	97465 97511	97470 97516	97520	97479 97525	97483 97529	97488 97534	97493 97539
ł	945	97543	97548	97552	97557	97562	97566	97571	97575	97580	97585
ı	946	97589	97594	97598	97603	97607	97612	97617	97621	97626	97630
ı	947	97635	97640	97644	97649	97653	97658	97663	97667	97672	97676
	948	97681	97685	97690	97695	97699	97704	97708	97713	97717	97722
I	949	97727	97731	97736	97740	97745	97749	97754	97759	97763	97768
ı	950	97772	97777	97782	97786	97791	97795	97800	97804	97809	97813
ı	951	97818	97823	97827	97832	97836	97841	97845	97850	97855	97859
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l	954	97955	97959	97964	97968	97973	97978	97982	97941	97946	97950 97996
ı	955	98000	98005	98009	98014	98019	98023	98028	98032	98037	98041
ı	956	98046	98050	98055	98059	98064	98068	98073	98078	98082	98087
1	957	98091	98096	98100	98105	98109	98114	98118	98123	98127	98132
ı	958	98137	98141	98146	98150	98155	98159	98164	98168	98173	98177
I	959	98182	98186	98191	98195	98200	98204	98209	98214	98218	98223
1	960	98227	98232	98236	98241	98245	98250	98254	98259	98263	98268
I	961 962	98272 98318	98277 98322	98281 98327	98286 98331	98290 98336	98 <b>2</b> 95 98 <b>34</b> 0	98299 98345	98304 98349	98308 98354	98313 98358
H	963	98363	98367	98372	98376	98381	98385	98390	98394	98399	98403
ı	964	98408	98412	98417	98421	98426	98430	98435	98439	98444	98448
1	965	98453	98457	98462	98466	98471	98475	98480	98484	98489	98493
ł	966	98498	98502	98507	98511	98516	98520	98525	98529	98534	98538
I	967	98543	98547	98552	98556	98561	98565	98570	98574	98579	98583
ł	968 969	98588 98632	98592 98637	98597 98641	98601 98646	98605 98650	98 <b>6</b> 10 98 <b>6</b> 55	98614 98659	98619 98664	98623 98668	98628 98673
1	970	98677	98682	98686	98691	98695	98700	98704	98709	98713	98717
1	971	98722	98726	98731	98735	98740	98744	98749	98753	98758	98762
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1	974	98856	98860	98865	98869	98874	98878	98883	98887	98892	98896
ı	975 976	98900 98945	98905 98949	98909 98954	98914	98918	98923	98927	98932	98936	98941
ł	977	98989	98994	98998	98958 99003	98963	98967 99012	98972 99016	98976 99021	98981	98985
I	978	99034	99038	99043	99047	99052	99056	99061	99065	99069	99074
ł	979	99078	99083	99087	99092	99096	99100	99105	99109	99114	99118
I	980	99123	99127	99131	99136	99140	99145	99149	99154	99158	99162
ı	981	99167	99171	99176	99180	99185	99189	99193	99198	99202	99207
1	982	99211	99216	99220	99224	99229	99233	99238	99242	99247	99251
1	983 984	99255 99300	99260 99304	99 <b>264</b> 99308	99269 99313	99273 99317	99277 99322	99282	99286 99330	99291 99335	99295
ı	985	99344	99348	99352	99357	99361	99366	99370	99374	99379	99383
ı	986	99388	99392	99396	99401	99405	99410	99414	99419	99423	99427
I	987	99432	99436	99441	99445	99449	99454	99458	99463	99467	99471
ı	988	99476	99480	99484	99489	99493	99498	99502	99506	99511	99515
I	989	99520	99524	99528	99533	99537	99542	99546	99550	99555	99559
I	990 991	99564 99607	99568	99572	99577	99581	99585	99590	99594	99599	99603
١	991	99651	99612 99656	99616 99660	99621 99664	99625 99669	99629 99673	99634 99677	99638 99682	99642 99686	99647 99691
ı	993	99695	99699	99704	99708	99712	99717	99721	99726	99730	99734
ı	994	99739	99743	99747	99752	99756	99760	99765	99769	99774	99778
ı	995	99782	99787	99791	99795	99800	99804	99808	99813	99817	99822
ł	996	99826	99830	99835	99839	99843	99848	99852	99856	99861	99865
ı	997 998	99870 99913	99874 99917	99878 999 <b>22</b>	99883 99926	99887 999 <b>3</b> 0	99891 99935	99896 99939	99900 99944	99904 99948	99909 99952
ı	999	99957	99961	99965	99970	99930	99978		99987	99991	99996
ı	300	00001	20001		00010	33314	22410	22203	00001	93331	,00000

## 108 Artificial Sines, Tang. and Sec. 0 Degree.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	, 1
0	Inf. Neg.	10.00000	Inf. Neg.	Infinite.	10.00000	Infinite.	60
$-\frac{1}{1}$	6.46373	10.00000	6.46373	13.53627	10.00000	13.53627	59
2	76476	00000	76476	23524	00000	23524	58
3	94085	00000	94085	05915	00000	05915	57
4	7.06579	00000	7.06579	12.93421	00000	12.93421	56
5 6	1 <b>6270</b> <b>24</b> 188	00000	16270 24188	83730 75812	. 00000	83730	55
7	30882	00000	30882	69118	00000	75812 69118	54 53
8	36682	00000	36682	63318	00000	63318	52
9	41797	00000	41797	58203	00000	58203	51
10	46373	00000	46373	53627	00000	53627	50
11	7.50512	10.00000	7.50512	12.49488	10.00000	12.49488	49
12	54291	00000	54291	45709	00000	45709	48
13 14	60985 / 60985	00000 00000	57767 60986	42233 39014	00000	42233 39015	47
15	63982	00000	63982	36018	00000	36018	45
16	66784	00000	66785	33215	00000	33216	44
17	69417	9.99999	69418	30582	00001	30583	43
18	71900	99999	71900	28100	00001	28100	42
19 20	74248 76475	99999 99999	74248. 76476	25752 23524	00001 00001	25752 23525	41 40
21	7.78594	9.99999	7.78595	12.21405	10.00001	12.21406	39
22	80615	99999	80615	19385	00001	19385	38
23	82545	99999	82546	17454	00001	17455	37
24	84393	99999	84394	15606	00001	15607	36
25	86166	99999	86167	13833	00001	13834	35
26 27	87870	99999	87871	12129	00001	12130	34
28	89509   91088	99999 99999	89510 91089	10490 08911	00001	10491 08912	33 32
29	92612	99998	92613	07387	00002	07388	31
30	94084	99998	94086	05914	00002	05916	30
31	7.95508	9.99998	7:95510	12.04490	10.00002	12.04492	29
32	96887	99998	96889	03111	00002	03113	28
33 34	98223	99998	98225	01775	00002	01777	27 26
35	99520 8.00779	99998 99998	99522 8.00781	00478 11.99219	00002	00480 11.99221	25
36	02002	- 99998	02004	97996	00002	97998	24
37	03192	99997	03194	96806	00003	96808	23
38	04350	99997	04353	95647	00003	95650	22
39 40	05478	99997 99997	05481 06581	94519	00003	94522	21
ll	8.07650	9.99997		93419 11.92347		93422	20
41 42	08696	9.99997	8.07653 08700	91300	10.00003	11.92350 91304	19 18
43	09718	99997	09722	90278	00003	90282	17
44	10717	99996	10720	89280	00004	89283	16
45	11693	99996	11696	88304	00004	88307	15
46 47	12647	99996 99996	12651	87349	00004	87353	14
48	13581 14495	99996	13585 14500	86415 85500	00004	86419 85505	13 12
49	15391	99996	15395	84605	00004	84609	11
50	16268	99995	16273	83727	00005	83732	10
51	8.17128	9.99995	8.17133	11.82867	10.00005	11.82872	9
52	17971	99995	17976	82024	00005	82029	8
53	18798	99995	18804	81196	00005	81202	7
54 55	19610 20407	99995 99994	19616 <b>204</b> 13	80384 79587	00005 00006	80390 79593	6
56	21189	99994	20413	78805	00006	79593 78811	5 4
57	21958	99994	21964	78036	00006	78042	3
58	22713	99994	. 22720	77280	00006	77287	2
59	23456	99994	23462	76538	00006	76544	1
60	24186	99993	24192	75808	00007	75814	0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	М.

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M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	8.24186	9.99993	8.24192	11.75808	10.00007	11.75814	60
ĭ	24903	99993	24910	75090	00007	75097	59
2	25609	99993	25616	74384	00007	74391	58
3	26304	99993	26312	73688	00007	73696	57
4	26988	99992	26996	73004	80000	73012	56
5	27661	99992	27669	72331 71668	80000 80000	72339	55 54
6 7	28324 28977	99992 99992	28332 28986	71008	00008	71676 710 <b>2</b> 3	53
8	29621	99992	29629	70371	00008	70379	52
9	30255	99991	30263	69737	00009	69745	51
10	8.30879	9.99991	8.30888	11.69112	10.00009	11.69121	50
11	31495	99991	31505	68495	00009	68505	49
12	32103	99990	32112	67888	00010	67897	48
13	32702	99990	32711	67289	00010	67298	47
14	33292	99990	33302	66698	00010	66708	46
15	33875	99990	33886	66114	00010	66125	45
16	34450	99989	34461	65539	00011	65550	44
17 18	35018 35578	99989 99989	35029 35590	64971 64410	00011 00011	64982 64422	43
19	36131	99989	36143	63857	00011	63869	41
20	8.36678	9.99988	8.36689	11.63311	10.00012	11.63322	40
21	37217	99988	37229	62771	00012		39
22	37750	99988	37762	62238	00012		38
23	38276	99987	38289	61711	00013	61724	37
24	38796	99987	38809	61191	00013	61204	36
25	39310	99987	39323	60677	00013	60690	35
26	39818	99986	39832	60168	00014	60182	34
27	40320	99986	40334	59666	00014	59680	33
28	40816	99986	40830	59170	00014	59184	32
29	41307	99985	41321	58679	00015	58693	31
30	8.41792	9.99985	8.41807	11.58193	10.00015	11.58208	30
31 32	42272 42746	99985 99984	42287 42762	57713 57238	00015 00016	57728 57254	29 28
33	43216	99984	43232	56768	00016	56784	27
34	43680	99984	43696	56304	00016	56320	26
35	44139	99983	44156	55844	00017	55861	25
36	44594	99983	44611	55389	00017	55406	24
37	45044	99983	45061	54939	00017	54956	23
38	45489	99982	45507	54493	00018	54511	22
39	45930	99982	45948	54052	00018	54070	.21
40	8.46366	9.99982	8.46385	11.53615	10.00018	11.53634	20
41	46799	99981	46817	53183	00019	53201	19
42	47226 47650	99981	47245	52755	00019	52774	18
43 44	48069	99981 99980	47669 48089	52331 51911	00019	52350 51931	16
45	48485	99980	48505	51495	00020	51515	15
46	48896	99979	48917	51083	00021	51104	14
47	49304	99979	49325	50675	00021	50696	13
48	49708	99979	49729	50271	00021	50292	12
49	50108	99978	50130	49870	00022	49892	11
50	8.50504	9.99978	8.50527	11.49473	10.00022	11.49496	10
51	50897	99977	50920	49080	00023	49103	9
52	51287	99977	51310	48690	00023	48713	8
53	51673	99977	51696	48304	00023	48327	7
54	52055	99976	52079	47921	00024	47945	6
55	52434	99976	52459	47541	00024	47566	5
56	52810	99975	52835	47165 46792	00025	47190	3
57 58	53183 53552	99975 99974	53208 53578	46422	00025	46817 46448	2
59	53919	99974	53945	46055	00026	46081	î
60	54282	99974	54308	45692	00026	45718	ō
	Co-sine.	Sine.	<u></u>	Tangent.		Secant.	M.
	1 Co-sine.	, Dine.	, co-tang.	1 angent.	- Ju-secant	l pecane	1 1/10

## 110 Artificial Sines, Tang. and Sec. 2 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
O	8.54282	9.99974	8.54308	11.45692	10.00026	11.45718	60
1	54642	99973	<b>546</b> 69	45331	00027	45358	59
2 3	54999 55354	99973 99972	55027	44973	00027	45001	58
1 4	55705	99972	55382 55734	44618 44266	00028	44646	57
5	56054	99971	56083	43917	00029	44295 43946	56 55
6	56400	99971	56429	43571	00029	43600	54
7	56743	99970	56773	43227	00030	43257	-53
8	57084	99970	57114	42886	. 00030	42916	52
9	57421	99969	57452	42548	60031	42579	51
10	8.57757	9.99969	8.57788	11.42212	10.00031	11.42243	50
11 12	58089	99968	58121	41879	00032	41911	49
13	58419 58747	99968 99967	58451 58779	41549 41221	00032	41581	48
14	59072	99967	59105	40895	00033	41253 40928	47 46
15	59395	99967	59428	40572	00033	40605	45
16	59715	99966	59749	40251	00034	40285	44
17	60033	99966	60068	39932	00034	39967	43
18	60349	99965	60384	<b>396</b> 16	00035	39651	42
19	60662	99964	<b>606</b> 98	39302	00036	39338	41
20	8.60973	9.99964	8.61009	11.38991	10.00036	11.39027	40
21 22	61282 61589	99963 99963	61319 61626	38681	. 00037	38718	39
23	61894	99962	61931	38374 38069	00037 00038	38411 38106	38 37
24	62196	99962	62234	37766	00038	37804	36
25	62497	99961	62535	37465	00039	37503	35
26	62795	99961	62834	37166	00039	37205	34
27	63091	99960	<b>631</b> 31	<b>36</b> 869	00040	36909	33
28	63385	99960	63426	36574	00040	<b>36</b> 615	32
29	63678	99959	<b>637</b> 18	36282	00041	36322	31
30 31	8.63968	9.99959	8.64009	11.35991	10.00041	11.36032	30
32	64256 64543	99958 99958	64298 64585	35702 35415	00042	35744	29
33	64827	99957	64870	35130	00043	35457 35173	28
34	65110	99956	65154	34846	00044	34890	26
35	65391	99956	65435	34565	00044	34609	25
36	65670	99955	65715	34285	00045	34330	24
37	65947	99955	65993	34007	00045	34053	23
38 39	66223	99954 99954	66269	33731	00046	33777	22
40	8.66769	9.99953	66543	33457	00046	33503	21
41	67039	99952	8.66816 67087	11.33184 32913	10.00047	11.33231	20
42	67308	99952	67356	32644	00048 00048	32961 32692	19
43	67575	99951	67624	32376	60049	32425	17
44	67841	99951	67890	32110	00049	32159	16
45	68104	99950	68154	31846	00050	31896	15
46	68367	99949	68417	31583	00051	31633	14
47 48	68627 68886	99949 99948	68678	31322	00051	31373	13
49	69144	99948	68938 69196	31062 30804	00052 00052	31114 30856	12
50	8.69400	9.99947	8.69453	11.30547	10.00053	11.30600	
51	89654	99946	69708	30292	00054	30346	10 9
52	69907	99946	69962	30038	00054	30093	8
53	70159	99945	70214	29786	00055	29841	7
54	70409	99944	70465	<b>29535</b>	00056	29591	6
55	70658	99944	70714	<b>292</b> 86	00056	29342	5
56 57	70905	99943	70962	29038	00057	29095	4
58	71151 71395	99942 99942	71208 71453	28792	00058 00058	28849	3
59	71638	99941	71697	28547 28303	00058	28605 28362	2
60	71880	99940	71940	28060	00060	28120	o
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.
_	, CC-JAME.	VIIIE.	orang.	1 angent	- co-secant	Secant.	J IVI.

М.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	8.71880	9.99940	8.71940	11.28060	10.00060	11.28120	60
1	72120	99940 9 <b>9</b> 939	<b>72</b> 181 <b>72</b> 420	27819 27580	00060 00061	27880 27641	59 58
2	<b>723</b> 59 <b>72597</b>	99938	<b>726</b> 59	27341	00062	27403	57
4	72834	99938	72896	27104	09062	27166	56
5	73069	99937	73132	26868	00063	26931	55
6	73303	99936	73366	26634	00064	26697	54
7	73535	99936	73600	26400	00064	<b>2646</b> 5	53
8	73767	90935	73832	26168	00065	26233	52
9	73997	99934	74063	25937	00066	26003	51
10	8.74226	9.99934	8.74292	11.25708	10.00066	11.25774	50
11	74454	99933	74521 74748	25479 25252	00067 00068	25546 25320	49 48
12 13	74680 74906	99932 99932	74974	25026	00068	25094	47
14	75130	99931	75199	24801	00069	24870	46
15	75353	99930	75423	24577	00070	24647	45
16	75575	99929	75645	<b>24</b> 355	00071	24425	44
17	75795	99929	75867	<b>24</b> 133	00071	24205	43
18	76015	99928	76087	23913	00072	23985	42
19	76234	99927	76306	23694	00073	23766	41
20	8.76451	9.99926	8.76525	11.23475	10.00074	11.23549 23333	40 39
21 22	76667 76883	99926 99925	76742 76958	23258 23042	00074 00075	23117	38
23	77097	99924	77173	23042	00078	22903	37
24	77310	99923	77387	22613	09077	22690	36
25	77522	99923	77600	22400	90077	22478	35
26	77733	99922	77811	<b>22</b> 189	00078	22267	34
27	77943	99921	78022	21978	00079	22057	33
28	78152	99920	78232	21768	00080 00080	21848 21640	32 31
29	78360	99920	78441	21559			30
30	8.78568	9.99919	8.78649 78855	11.21351 21145	10.00081 00082	11.21432 21226	29
31 32	78774 78979	99918 99917	79061	20939	00083	21021	28
33	79183	99917	79266	20734	00083	20817	27
34	79386	99916	79470	20530	00084	20614	26
35	79588	<b>99</b> 915	79673	20327	00085	20412	25
36	79789	99914	79875	20125	00086	20211	24
37	79990	99913	80076	19924	00087	20010	23
38 39	80189 80388	99913 99912	80277 80476	19723 19524	00087 00088	19811 19612	21
					10.00089	11.19415	20
40	8.80585 80782	9.99911 99910	8.80674 80872	11.19326 19128	00090	19218	19
42	80978	99909	81068	18932	00091	19022	18
43	81173	99909	81264	18736	90091	18827	17
44	81367	99908	81459	18541	00092	18633	16
45	81560	99907	81653	18347	60093	18440	15
46	81752	99906	81846	18154	00094 00095	18248	14
47 48	81944 8 <b>2</b> 134	99905 99904	82038 82230	179 <del>0</del> 2 17770	00095	18056 17866	12
46	82324	99904	82420	17580	00096	17676	lii
50	8.82513	9.99903	8.82610	11,17390	10.00097	11.17487	10
51	82701	99902	82799	17201	00098	17299	9
52	82888	99901	82987	17013	00099	17112	8
53	83075	99900	83175	16825	00100	16925	7
54	83261	99899	83361	16639	00101	16739	6
55	83446	99898	83547	16453	00102	16554	5
56	83630	99898	83732	16268	00102	16370 16187	2
57	83813	99897	83916 84100	16084 15900	00103 00104	16004	3 2
58 59	83996 84177	99896 99895	84282	15718	00104	15823	î
60	84358	99894	84464	15536	00106	15642	ŀô
<del> </del>	Co-sine.		Co-tang.		Co-secant	Secant.	M.
ו נו	~o-sine.	Sine.	Co-tang.	t angent.	1 CO-secult	1 Menamer	

## 112 Artificial Sines, Tang. and Sec. 4 Degrees.

						<u> </u>	
M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	$\sqcap$
0	8.84358	9.99894	8.84464	11.15536	10.00106	11.15642	60
1	84539	99893	84646	15354	00107	15461	59
2	84718	99892	84826	15174	00108	15282	58
3	84897	99891 99891	85006	14994 14815	00109	15103	57
4 5	85075 85252	99890	85185 85363	14637	00109	14925 14748	56 55
6	85429	99889	85540	14460	00111	14571	54
7	85605	99888	85717	14283	00112	14395	53
8	85780	99887	85893	14107	00113	14220	52
9	85955	99886	86069	13931	00114	14045	51
10	8.86128	. 9.99885	8.86243	11.13757	10.00115	11.13872	50
11	86301	99884	86417	13583	00116	13699	49
12	86474	99883	86591	13409	00117	13526	48
13 14	86645	99882	86763	13237	00118	13355	47
15	86816 86 <b>9</b> 87	99881 99880	86935 87106	13065 12894	00119 00120	13184 13013	46 45
16	87156	99879	87277	12723	00120	12844	44
17	87325	99879	87447	12553	00121	12675	43
18	87494	99878	87616	12384	00122	12506	42
19	87661	99877	87785	12215	00123	12339	41
20	8.87829	9.99876	8.87953	11.12047	10.00124	11.12171	40
21	87995	99875	88120	11880	00125	12005	39
22	88161	99874	88287	11713	00126	1,1839	38
23	88326	99873	88453	11547	00127	11674	37
24 25	88490 88654	99872 99871	88618 88783	11382 11217	00128 00129	11510 11346	36
26	88817	99870	88948	11052	00129	11183	34
27	88980	99869	89111	10889	00131	11020	33
28	89142	99868	89274	10726	00132	10858	32
29	89304	99867	89437	10563	00133	10696	31
30	8.89464	9.99866	8.89598	11.10402	10.00134	11.10536	30
31	89625	99865	89760	10240	00135	10375	29
32	89784	99864	89920	10080	00136	10216	28
33 34	89943	99863	. 90080	09920	00137	10057	27
35	90102 90260	99862 99861	90240 90399	09760 09601	00138 00139	09898 09740	26 25
36	90417	99860	90557	09443	00139	09583	24
37	90574	99859	90715	09285	00141	09426	23
38	90730	99858	90872	09128	00142	09270	22
39	90885	99857	91029	08971	00143	09115	21
40	8.91040	9.99856	8.91185	11.08815	10.00144	11.08960	20
41	91195	99855	91340	08660	00145	08805	19
42	91349	99854	91495	08505	00146	08651	18
43 44	91502	. 99853	91650	08350	00147	08498	17
44	91655 91807	99852 99851	91803	08197	00148	08345 08193	16
46	91959	99850	91957 92110	08043 07890	00149 00150	08193	15 14
47	92110	99848	92262	07738	00152	07890	13
48	92261	99847	92414	07586	00153	07739	12
49	92411	99846	92565	07435	00154	07589	11
50	8.92561	9.99845	8.92716	11.07284	10.00155	11.07439	10
51	92710	99844	92866	07134	00156	07290	9
52	92859	99843	93016	06984	00157	07141	8
53	93007	99842	93165	06835	00158	06993	7
54 55	93154 93301	99841	93313	06687	00159	06846	6
56	93448	99840 99839	93462 93609	06538 06391	00160 00161	06699 06552	5 4
57	93594	99838	93756	06244	00162	06406	3
58	93740	99837	93903	06097	00163	06260	2
59	93885	99836	94049	05951	00164	06115	2
60	94030	99834	94195	05805	00166	05970	0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.
48							

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	8.94030	9.99834	8.94195	11.05805	10.00166	11.05970	60
1	94174	99833	94340	05660	00167	05826	-0
2	94317	99832	94485	05515	00168	05683	58 57
3	94461	99831	94630	05370	00169	05539	57
4	94603	99830	94773	05227	00170	05397	56
5	94746	99829	94917	05083	00171	05254	55
6	94887	99828	95060	04940	00172	05113	54
7	95029	99827	95202	04798	00173	04971	53
8	95170	99825	95344	04656	00175	04830	52
9	95310	99824	95486	04514	00176	04690	51
10	8.95450	9.99823	8.95627	11.04373	10.00177	11.04550	50
ii	95589	99822	95767	04233	00178	04411	49
12	95728	99821	95908	04092	00179	04272	48
13	95867	99820	96047	03953	00180	04133	47
14	96005	99819	96187	03813	00181	03995	46
15	96143	99817	96325	03675	00183	03857	45
16	96280	99816	96464	03536	00184	03720	44
17	96417	99815	96602	03398	00185	03583	43
18	96553	99814	96739	03261	00186	03447	42
19	96689	99813	96877	03123	00187	03311	41
20	8.96825	9.99812	8.97013	11.02987	10.00188	11.03175	40
21	96960	99810	97150	02850	00190	03040	39
22	97095	99809	97285	02715	00191	02905	38
23	97229	99808	97421	02579	00192	02771	37
24	97363	99807	97556	02444	00193	02637	36
25	97496	99806	97691	02309	00194	02504	35
26	97629	99804	97825	02175	00196	02371	34
27	97762	99803	97959	02041	00197	02238	33
28	97894	99802	98092	01908	00198	02106	32
29	98026	99801	98225	01775	00199	01974	31
30	8.98157	9.99800	8.98358	11.01642	10.00200	11.01843	30
31	98288	99798	98490	01510	00202	01712	29
32	98419	99797	98622	01378	00203	01581	28
33	98549	99796	98753	01247	00204	01451	27
34	98679	99795	98884	01116	00205	01321	26
35	98808	99793	99015	00985	00207	01192	25
36 37	98937	99792	99145	00855	00208	01063	24
	99066	99791	99275	00725	00209	00934	23
38 39	99194	99790	99405	00595 00466	00210 00212	00806	22
	99322	99788	99534			00678	21
40	8.99450	9.99787	8.99662	11.00338	10.00213	11.00550	20
41	99577	99786	99791	00209	00214	00423	19
42	99704	99785	99919	00081	00215	00296	18
43 44	99830	99783	9.00046	10.99954	00217	00170	17
44	99956 9.00082	99782 99781	00174 00301	99826 99699	00218 00219	00044 10.99918	16 15
46	00207	99780	00301	99573	00219	99793	14
47	00332	99778	00427	99447	00220	99668	13
48	00352	99777	00679	99321	00222	99544	12
49	00581	99776	00805	99195	00223	99419	11
50	9.00704	9.99775		10.99070	10.00225	10.99296	10
51	00828	9.99775	9.00930	98945	00227	99172	9
52	00951	99772	01055 01179	98945	00228	99172	8
53	01074	99771	01179	98697	00229	98926	7
54	01074	99769	01303	98573	00223	98804	6
55	01318	99768	01550	98450	00231	98682	5
56	01310	99767	01673	98327	00232	98560	4
57	01561	99765	01796	98204	00235	98439	3
58	01682	99764	01918	98082	00236	98318	2
59	01803	99763	02040	97960	00237	98197	ĩ
60	01923	99761	02162	97838	00239	98077	ō
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.
L	. CO VILLE.	~****	- o- wing.	T ame cur.	JU-JUGUAUL	~~~~	

#### 114 Artificial Sines, Tang. and Sec. 6 Degrees.

		<u> </u>				<u> </u>	
M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.01923	9.99761 99760	9.02162 02283	10.97838 97717	10.00239 00240	10.98077	60
1 2	02043 02163	99759	02404	97596	00240	97957 97837	59 58
3	02283	99757	02525	97475	00243	97717	57
4	02402	99756	02645	97355	00244	97598	56
5	02520	99755	02766	97234	00245	97480	55
6	02639	99753	02885	97115	00247	97361	54
7	02757	99752	03005	96995	00248	97243	53
8 9	02874	99751   99749	03124   03242	96876 9 <b>67</b> 58	00249 00251	97126	52
L	02992			10.96639	10.00252	97008	51
10 11	9.03109 03226	9.99748 99747	9.03361 03479	96521	00253	10.96891 96774	50 49
12	03342	99745	03597	96403	00255	96658	48
13	03458	99744	03714	96286	00256	96542	47
14	03574	99742	03832	96168	00258	96426	46
15	03690	99741	03948	96052	00259	96310	45
16	03805	99740	04065	95935	00260	96195	44
17 18	03920 04034	99738 99737	04181	95819 95703	00262 00263	96080 95966	43
19	04034	99737	04297 04413	95587	00264	95966	42
20	9.04262	9.99734	9.04528	10.95472	10.00266	10.95738	40
21	04376	99733	04643	95357	00267	95624	39
22	04490	99731	04758	95242	00269	95510	38
23	04603	99730	04873	95127	00270	95397	37
24	04715	99728	04987	95013	00272	95285	36
25	04828	99727	05101	94899	00273	95172	35
26 27	04940 05052	99726 99724	05214 05328	94786 94672	00274 00276	95060 94948	34
28	05164	99723	05326	94559	00277	94836	32
29	05275	99721	05553	94447	00279	94725	31
30	9.05386	9.99720	9.05666	10.94334	10.00280		30
31	05497	99718	05778	94222	00282	94503	29
32	05607	99717	05890	94110	00283		28
33	05717	99716	06002	93998	00284		27
34	05827	99714	06113	93887	00286	94173	26
35 36	05937 06046	99713 99711	06224 06335	93776 93665	00287 00289	94063 93954	25 24
37	06155	99710	06445	93655	00200		23
38	06264	99708	06556	93444	00292		22
39	06372	99707	06666	93334	00293		21
40	9.06481	9.99705	9.06775	10.93225	10.00295	10.93519	20
41	06589	99704	06885	93115	00296		19
42	06696	99702	06994	93006	00298		
43 44	06804 06911	99701	07103	92897	00299		17
44	07018	99699 99698	07211 07320	92789 92680	00301	93089 92982	16 15
46	07124	99696	07428	92572	00304		14
47	07231	99695	07536	92464	00305		13
48	07337	99693	07643	92357	00307	92663	12
49	07442	99692	07751	92249	00308		
50	9.07548	9.99690	9.07858	10.92142	10.00310		10
51	07653	99689	07964	92036	00311		9
52 53	07758	99687	08071	91929	00313		8
54	07863 07968	99684	08177	91823 91717	00314		6
55	08072	99683	08389	91611	00317		5
56	08176	99681	08495	91505	00319		4
57	08280	99680	08600	91400	00320		3
58	08383	99678	08705	91295	00322		2
59 60	08486	99677	08810	91190	00323		1
100	08589	99675	08914	91086	00325		0
<u> </u>	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

## Artificial Sines, Tang. and Sec. 7 Degrees. 115

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.08589	9.99675	9.08914	10.91086	10.00325	10.91411	60
1	08692	99674	09019	90981	00326	91308	59
2	08795	99672	09123	90877	00328	91205	58
3	08897	99670	09227	90773	00330	91103	57
4 5	08999	99669 99667	09330 09434	90670 90566	00331	91001	56 55
6	09101 09202	99666	09434	90463	00333 00334	90899 90798	54
7	09304	99664	09640	90360	00336	90696	53
8	09405	99663	09742	90258	00337	90595	52
9	09506	99661	09845	90155	00339	90494	51
10	9.09606	9.99659	9.09947	10.90053	10.00341	10.90394	50
11	09707	99658	10049	89951	00342	90293	49
12 13	09807 09907	99656 99655	10150 10252	89850 89748	00344 00345	90193 90093	48
14	10006	99653	10252	89647	00347	89994	46
15	10106	99651	10454	89546	00349	89894	45
16	10205	99650	10555	89445	00350	89795	44
17	10304	99648	10656	89344	00352	89696	43
18 19	10402 10501	99647 99645	10756 10856	89244 89144	00353 00355	89598 89499	42
20	9.10599	9.99643	9.10956	10.89044	10.00357	10.89401	40
21	10697	99642	11056	88944	00358	89303	39
22	10795	99640	11155	88845	00360	89205	38
23	10893	99638	11254	88746	00362	89107	37
24	10990	99637	11353	88647	00363	89010	36
25 26	11087	99635	11452	88548	00365	88913	
27	11184 11281	99633 99632	11551 11649	88449 88351	00367 00368	88816 88719	34
28	11377	99630	11747	88253	00370	88623	32
29	11474	99629	11845	88155	00371	88526	31
30	9.11570	9.99627	9.11943	10.88057	10.00373	10.88430	30
31	11666	99625	12040	87960	00375	88334	29
32	11761	99624	12138	87862	00376	88239	28
33 34	1185 <b>7</b> 11 <b>952</b>	99622 99620	12235 12332	87765 87668	00378 00380	88143 88048	27 26
35	12047	99618	12428	87572	00382	87953	25
36	12142	99617	12525	87475	00383	87858	24
37	12236	99615	12621	87379	00385	87764	23
38 39	12331	99613	12717	87283	00387	87669	22
1	12425	99612	12813	87187	00388	87575	21
40 41	9.12519 12612	9.99610 99608	9.12909 13004	10.87091 86996	10.00390 00392	10.87481 87388	20 19
42	12706	99607	13004	86901	00393	87388 87294	18
43	12799	99605	13194	86806	00395	87201	17
44	12892	99603	13289	86711	00397	87108	16
45	12985	99601	13384	86616	00399	87015	15
46 47	13078 13171	99600 99598	13478 13573	86522 86427	00400 00402	86922 86829	14 13
48	13263	99596	13667	86333	00402	86737	12
49	13355	99595	13761	86239	00405	86645	ii
50	9.13447	9.99593	9.13854	10.86146	10.00407	10.86553	10
51	13539	99591	13948	86052	00409	86461	9
52	13630	99589	14041	85959	00411	86370	8
53 54	13722	99588	14134	85866	00412	86278	7
54 55	13813 13904	99586 99584	14227 14320	85773 85680	00414 00416	86187 86096	6 5
56	13994	99582	14320	85588	00418	86006	4
57	14085	99581	14504	85496	00419	85915	3
58	14175	<b>9</b> 95 <b>7</b> 9	14597	85403	00421	<b>8</b> 58 <b>2</b> 5	2
59 80	14266	99577	14688	85312	00423	85734	1
60	14356	99575	14780	85220	00425	85644	0
<u> </u>	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	М.

## 116 Artificial Sines, Tang. and Sec. 8 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.14356	9.99575	9.14780	10.85220	10.00425	10.85644	60
1	14445	99574	14872	85128	00426	85555	59
2	14535	99572	14963	85037	00428	85465	58
3 4	14624	99570	15054	84946 84855	00430 00432	85376	57
5	14714 14803	99568 99566	15145 15 <b>236</b>	84764	00432	85286 85197	56 55
6	14891	99565	15327	84673	00435	85109	54
7	14980	99563	15417	84583	00437	85020	53
8	15069	99561	15508	84492	00439	84931	52
9	15157	99559	15598	84402	00441	84843	5 <b>1</b>
10	9.15245	9.99557	9.15688	10.84312	10.00443	10.84755	50
11	15333	99556	15777	84223	00444	84667	49
12	15421	99554	15867	84133	00446	84579	48
13	15508	99552	15956	84044	00448	84492	47
14 15	15596 1568 <b>3</b>	99550 99548	16046	83954	00450	84404	46 45
16	15770	99546	16135 16224	83865 83776	00452 00454	84317 84230	44
17	15857	99545	16312	83688	00455	84143	43
18	15944	99543	16401	83599	00457	84056	42
19	16030	99541	16489	83511	00459	83970	41
20	9.16116	9.99539	9.16577	10.83423	10.00461	10.83884	40
21	16203	99537	16665	83335	00463	83797	39
22	16289	99535	16753	83247	00465	83711	38
23	16374	99533	16841	83159	00467	83626	37
24	16460	99532	16928	83072	00468	83540	36
25	16545	99530	17016	82984	00470	83455	35
26 27	16631	995 <b>2</b> 8 995 <b>2</b> 6	17103 17190	82897 82810	00472	83369	34 33
28	16716 16801	99524	17277	82723	00474 00476	83284 83199	32
29	16886	99522	17363	82637	00478	83114	31
30	9.16970	9.99520	9.17450	10.82550	10.00480	10.83030	30
31	17055	99518	17536	82464	00482	82945	29
32	17139	99517	17622	82378	00483	82861	28
33	17223	99515	17708	82292	00485	82777	27
34	17307	99513	17794	82206	00487	82693	26
35	17391	99511	17880	82120	00489	82609	25
36	17474	99509	17965	82035	00491	82526	24
37	17558	99507	18051	81949	00493	82442	23 22
38 39	17641 17724	99505 99503	18136 18221	81864 81779	00495 00497	82359 82276	21
40	9.17807	9.99501	9.18306	10.81694			20
41	17890	9.99501	18391	81609	10.00499 00501	10.82193 82110	20 19
42	17973	99497	18475	81525	00501	82027	18
43	18055	99495	18560	81440	00505	81945	17
44	18137	99494	18644	81356	00506	81863	16
45	18220	99492	18728	81272	00508	81780	15
46	18302	99490	18812	81188	00510	81698	14
47	18383	99488	18896	81104	00512	81617	13
48 49	18465	99486 99484	18979	81021	00514	81535	12 11
	18547		19063	80937	00516	81453	
50	9.18628	9.99482	9.19146	10.80854	10.00518	10.81372	10
51 52	18709 18790	99480 99478	19229 19312	80771 80688	00520 00522	81291 81210	9
5 <b>3</b>	18871	99476	19395		00522	81129	7
54	18952	99474	19478	80522	00524	81048	6
55	19033	99472	19561	80439	00528	80967	5
56	19113	99470	19643	80357	00530	80887	4
57	19193	99468	19725	80275	00532	80807	3
58	19273	99466	19807	80193	00534	80727	2
59	19353	99464	19889	80111	00536	80647	1
60	19433	99462	19971	80029	00538	80567	0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

T,	Ä.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	1
1	0	9.19433	9.99462	9.19971	10.80029	10.00538	10.80567	60
11.	1	19513	99460	20053	79947	00540	80487	59
ı	2	19592	99458	20134	<b>47</b> 9866	00542	80408	58
H	3	19672	99456	20216	79784	00544	80328	57
ı	4	19751	99454	20297	79703	00546	80249	56
	5	19830	99452	20378	79622	00548	80170	55
l	6	19909	99450	20459	79541	00550	80091	54
I	7 8	19988 20067	99448 99446	20540 20621	79460 79379	00552 00554	80012 79933	53 52
	9	20145	99444	20701	79299	00556	79855	51
-	0	9.20223	9.99442	9.20782	10.79218	10.00558	10.79777	50
	1	20302	99440	20862	79138	00560	79698	49
	2	20380	99438	20942	79058	00562	79620	48
	3	20458	99436	21022	78978	00564	79542	47
	4	20535	99434	21102	78898	00566	79465	46
	5	20613	99432	21182	78818	00568	79387	45
	6	20691	99429	21261	78739	00571	79309	44
	7	20768	99427	21341	78659	00573 00575	79232 79155	43 42
	9	20845 20922	99425 99423	21420 21499	78580 78501	00575	79155	42
-	_					10.00579	10.79001	40
	20	9.20999 21076	9.99421 99419	9.21578 21657	10.78422 78343	00581	78924	39
	2	21153	99419	21736	78264	00583	78847	38
	3	21229	99415	21814	78186	00585	78771	37
	4	21306	99413	21893	78107	00587	78694	36
	5	21382	99411	21971	78029	00589	78618	35
	26	21458	99409	22049	77951	00591	78542	34
	7	21534	99407	22127	77873	00593	78466	33
	8	21610	99404	22205	77795	00596	78390	32
	29	21685	99402	22283	77717	00598	78315	31
	30	9.21761	9.99400	9.22361	10.77639	10.00600	10.78239	30
	11	21836	99398	22438	77562	00602	78164	29
	12	21912	99396 99394	22516	77484 77407	00604 00606	78088 78013	28 27
	4	21987 22062	99392	22593 22670	77330	00608	77938	26
	5	22137	99390	22747	77253	00610	77863	25
	6	22211	99388	22824	77176	00612	77789	24
3	37	22286	99385	22901	77099	00615	77714	23
	88	22361	99383	22977	77023	00617	77639	22
3	19	<b>224</b> 35	99381	23054	76946	00619	77565	21 ·
	Ю	9.22509	9.99379	9.23130	10.76870	10.00621	10.77491	20
	11	22583	99377	23206	76794	00623	77417	19
	12	22657	99375	23283	76717	00625	77343	18
	13	<b>227</b> 31	99372	23359	76641	00628	77269	17 16
	14 15	22805 22878	99370 99368	<b>234</b> 35 <b>23</b> 510	76565 76490	00630	77195 771 <b>22</b>	15
	16	22952	99366	23516 23586	76414	00634	77048	14
	17	23025	99364	<b>23661</b>	76339	00636	76975	13
81 -	18	23098	99362	23737	76263	00638	76902	12
4	19	23171	99359	23812	76188	00641	76829	11
5	50	9.23244	9.99357	9.23887	10.76113	10.00643	10.76756	10
<b>3</b> 1 -	51	23317	99355	23962	76038	00645	76683	9
	52	23390	99353	24037	75963	00647	76610	8
	53	23462	99351	24112	75888	00649	76538	7
	4	23535	99348	24186	75814	00652	76465	6
	55	23607	99346	24261	75739	00654	76393 76321	5
	6	23679 23752	99344	24335	75665 75590	00656 00658	76248	3
	8	23752	99342 99340	24410 24484	75516	00660	76177	2
	9	23895	99337	24558	75442	00663	76105	î
	80	23967	99335	24632	75368	00665	76033	ō
H	÷	Co-sine.	Sine.	Co-tang.		Co-secant		M.
重!	- 1	-01He	~	, oo-aas	· · · · · · · · · · · · · · · · · · ·			1

## 118 Artificial Sines, Tang. and Sec. 10 Degrees.

M. I	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.23967	9.99335	9.24632	10.75368	10.00665	10.76033	60
1	24039	99333	24706	75294	00667	75961	59
2	24110	99331	2479	75221	00669	75890	58
3	24181	99328	24853	75147	00672	75819	57
4 5	24253 24324	99326 99324	24926 25000	75074 75000	00674 00676	75747 75676	56 55
6	24395	99322	25073	74927	00678	75605	54
7	24466	99319	25146	74854	00681	75534	53
8	24536	99317	<b>2</b> 5219	74781	00683	75464	52
9	24607	99315	25292	74708	00685	75393	51
10	9.24677	9.99313	9.25365	10.74635	10.00687	10.75323	50
11	24748	99310	25437	74563	00690	75252	49
12	24818	99308	25510	74490	. 00692	75182	48
13 14	24888 24958	99306 99304	25582 25655	74418 74345	00694 00696	75112 75042	47
15	25028	99301	25727	74273	00699	74972	45
16	25098	99299	25799	74201	00701	74902	44
17	25168	99297	25871	74129	00703	74832	43
18	25237	99294	25943	74057	00706	74763	42
19	25307	99292	26015	73985	00708	74693	41
20	9.25376	9.99290	9.26086	10.73914	10.00710	10.74624	40
21	25445	99288	26158	73842	00712	74555	39
22 23	25514 25583	99285 99283	26229 26301	73771 73699	00715 00717	74486 74417	38
24	25652	99281	26372	73628	00719	74348	36
25	25721	99278	26443	73557	00722	74279	35
26	25790	99276	26514	73486	00724	74210	34
27	<b>25</b> 858	99274	26585	73415	00726	74142	33
28	<b>2</b> 592 <b>7</b>	99271	26655	73345	00729	74073	32
29	25995	99269	26726	73274	00731	74005	31
30	9.26063	9.99267	9.26797	10.73203	10.00733	10.73937	30
31	26131	99264	26867	73133	00736	73869	29
32 33	26199 26267	99262 99260	26937 27008	73063 72992	00738 00740	73801 73733	28
34	26335	99257	27078	72922	00743	73665	26
35	26403	99255	27148	72852	00745	73597	25
36	26470	99252	27218	72782	00748	73530	24
37	26538	99250	27288	72712	00750	73462	23
38	26605	99248	27357	72643	00752	73395	22
39	26672	99245	27427	72573	00755	73328	21
40	9.26739	9.99243	9.27496	10.72504	10.00757	10.73261	20
41 42	26806 26873	99241 99238	27566 27635	72434 72365	00759 00762	73194 73127	19
43	26940	99236	27704	72296	00764	73060	17
44	27007	99233	27773	72227	00767	72993	16
45	27073	99231	27842	72158	00769	72927	15
46	27140	99229	27911	72089	00771	72860	14
47	27206	99226	27980	72020	00774	72794	13
48 49	27273 27339	99224 99221	28049 28117	71951 71883	00776 00779	72727 72661	12
50	9.27405			10.71814		10.72595	-
50 51	27471	9.99219 99217	9.28186 28254	71746	10.00781 00783	72529	10
52	27537	99214	28323	71677	00786	72463	8
53	27602	99212	28391	71609	00788	72398	7
54	27668	99209	28459	71541	00791	72332	6
55	27734	99207	28527	71473	00793	72266	5
56	27799	99204	28595	71405	00796	72201	4
57 59	27864 27930	99202 99200	28662	71338	00798	72136	3 2
58 59	27930 27995	99200	28730 28798	71270 71202:	00800	72070 72005	1
60	28060	99195	28865	71135	00805	71940	ō
100	Co-sine.	Sine.	Co-tang.		Co-secant	Secant.	M.
السنا	31HG.	, Sine.	i Co-taug.	rangent.	CO-secant	, Secant.	1 141.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.28060	9.99195	9.28865	10.71135	10.00805	10.71940	60
1	28125	99192	28933	71067	00808	71875	59
2	28190	99190	29000	71000	00810	71810	58
3	28254	99187	29067	70933	00813	71746	57
4	28319	99185	29134	70866	00815	71681	56
5	28384	99182	29201	70799 70732	00818	71616	55 54
6 7	28448 28512	99180 99177	29268 29335	70665	008 <b>2</b> 0 008 <b>23</b>	7155 <b>2</b> 71488	53
8	28577	99175	29402	70598	00825	71423	52
9	28641	99172	29468	70532	00828	71359	51
10	9.28705	9.99170	9.29535	10.70465	10.00830	10.71295	50
11	28769	99167	29601	70399	00833	71231	49
12	28833	99165	29668	70332	00835	71167	48
13	28896	99162	29734	70266	00838	71104	47
14	28960	99160	29800	70200	00840	71040	46
15 16	29024	99157	29866	70134	00843	70976	45 44
17	29087 29150	99155 9915 <b>2</b>	29932 29998	70068 70002	00845 00848	70913 70850	43
18	29150 29214	99152	30064	69936	00850	70786	43
19	29277	99147	30130	69870	00853	70723	41
20	9.29340	9.99145	9.30195	10.69805	10.00855	10.70660	40
21	29403	99142	30261	69739	00858	70597	39
22	29466	99140	30326	69674	00860	70534	38
23	29529	99137	30391	69609	00863	70471	37
24	29591	99135	30457	69543	00865	70409	36
25	29654	99132	30522	69478	00868	70346	35
26 27	29716 29779	99130	30587 30652	69413 69348	00870	70284 70221	34 33
28	29841	99127 99124	30717	69283	00873 00876	70159	32
29	29903	99122	30782	69218	00878	70097	31
30	9.29966	9.99119	9.30846	10.69154	10.00881	10.70034	30
31	30028	99117	30911	69089	00883		29
32	30090	99114	30975	69025	00886		28
33	30151	99112	31040	68960	00888		27
34	30213	99109	31104	68896	00891	69787	26
35	30275	99106	31168	68832	00894		25
36	30336	99104	31233	68767	00896		24
37 38	30398	99101	31297	68703	00899	69602	23
39	30459 30521	99099 99096	31361 31425	68639 68575	00901 00904	69541 69479	21
40	9.30582	9.99093	9.31489	10.68511	10.00907	10.69418	20
41	30643	99093	31552	68448	00909	69357	19
42	30704	99088	31616	68384	00912		18
43	30765	99086	31679	68321	00914	69235	17
44	30826	99083	31743	68257	00917	69174	16
45	30887	99080	31806	68194	00920	69113	15
46	30947	99078	31870	68130	00922	69053	14
47	31008	99075	31933	68067	00925	68992	13
48 49	31068 31129	99072 99070	31996	68004	00928 00930	68932	12
50			32059	67941		68871	11
50 51	9.31189 31250	9.99067 99064	9.32122 32185	10.67878 67815	10.00933 00936	10.68811 68750	10
52	31310	99062	32248	67752	00938	68690	8
53	31370	99059	32311	67689	00941	68630	7
54	31430	99056	32373	67627	00944	68570	6
55	31490	99054	32436	67564	00946	68510	5
56	31549	99051	32498	67502	00949	68451	4
57	31609	99048	32561	67439	00952	68391	3
58	31669	99046	32623	67377	00954	68331	2
59 60	31 <b>72</b> 8 31 <b>7</b> 88	99043 99040	32685	67315	00957	68272	1 0
-00			32747	67253	00960	68212	
L	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

#### 120 Artificial Sines, Tang. and Sec. 12 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
θ	9.31788	9.99040	9.32747	10.67253	10.00960	10.68212	60
1	31847	99038	32810	67190	00962 00965	68153	59
. 2	31907 31966	99035 99032	32872 32933	67128 67067	00968	68093 68034	58 57
4	32025	99030	32995	67005	00970	67975	56
5	32084	99027	33057	66943	00973	67916	55
6	32143	99024	33119	66881	00976	67857	54
7	32202	99022	33180	66820	00978	67798	53
8	32261 32319	99019 99016	33242 33303	66758 66697	00981 00984	67739 67681	52 51
10	9.32378	9.99013	9.33365	10.66635	10.00987	10.67622	50
11	32437	99011	33426	66574	00989	67563	49
12	32495	99008	33487	66513	00992	67505	48
13	32553	99005	33548	66452	00995	67447	47
14	32612	99002	33609	66391	00998	67388	46
15 16	32670 32728	99000 98997	33670 33731	66330 66269	01000 01003	67330 67272	45
17	32786	98994	33792	66208	01005	67214	43
18	32844	98991	33853	66147	01009	67156	42
19	32902	98989	33913	66087	01011	67098	41
20	9.32960	9.98986	9.33974	10.66026	10.01014	10.67040	40
21	33018	98983	34034	65966	01017	66982	39
22	33075	98980	34095	65905	01020	66925 66867	38
23 24	33133 33190	98978 98975	34155 34215	65845 65785	01022 01025	66810	36
25	33248	98972	34276	65724	01028	66752	35
26	33305	98969	34336	65664	01031	66695	34
27	33362	98967	34396	65604	01033	66638	33
28	33420	98964	34456	65544	01036	66580	32
29	33477	98961	34516	65484	01039	66523	31
30	9.33534	9.98958	9.34576	10.65424 65365	10.01042 01045	10.66466	30 29
31 32	33591 33647	98955 98953	34635 34695	65305	01045	66353	28
33	33704	98950	34755	65245	01050	66296	27
34	33761	98947	34814	65186	01053	66239	26
35	33818	98944	34874	65126	01056	66182	25
36	33874	98941	34933	65067	01059 01062	66126 66069	24
37 38	33931 33987	98938 98936	34992 35051	65008 64949	01062	66013	22
39	34043	98933	35111	64889	01067	65957	21
40	9.34100	9.98930	9.35170	10.64830	10.01070	10.65900	20
41	34156	98927	35229	64771	01073	65844	19
42	34212	98924	35288	64712	01076	65788	18
43	34268	98921	35347	64653	01079	65732	17
44	34324 34380	98919	35405	64595 645 <b>3</b> 6	01081 01084	65676 65620	16 15
45 46	· 34380	98916 98913	35464 35523	64477	01087	65564	14
47	34491	98910	35581	64419	.01090	65509	13
48	34547	98907	35640	64360	01093	65453	12
49	34602	98904	35698	64302	01096	65398	11
50	9.34658	9.98901	9.35757	10.64243	10.01099	10.65342	10
51	34713	98898	35815	64185	01102 01104	65287 65231	8
52 53	34769 34824	98896 98893	35873 35931	64127 64069	01104	65176	7
54 54	34879	98890	35989	64011	01110	65121	6
55	34934	98887	36047	63953	01113	65066	5
56	34989	98884	<b>36</b> 105	<b>63</b> 895	01116	65011	4
57	35044	98881	36163	63837	01119	64956	3 2
58 59	35099 35154	98878 98875	36221 36279	63779 63721	01122	64901 64846	1
60	35209	98872	36336	63664	01128	64791	ó
<b> </b>	Co-sine.	Sine.			Co-secant		M.

134	C.	l Co sino	1 Management	1 O- 4			
M.	Sine.	9.98872	9.36336	Co-tang.	Secant.	Co-secant	
0	9.35209	98869	36394	10.63664 63606	10.011 <b>28</b> 01131	10.64791 64737	60 59
2	35318	98867	36452	63548	01133	64682	58
$\tilde{3}$	35373	98864	36509	63491	01136	64627	57
4	35427	98861	36566	63434	01139	64573	56
5	35481	98858	36624	63376	` 01142	64519	55
6	35536	98855	36681	63319	01145	64464	54
7	35590	98852	36738	63262	01148	64410	53
8	35644 35698	98849 98846	36795	63205	01151	64356	52
10	9.35752		36852 9.36909	10.63091	01154	64302	51
11	35806	9.98843 98840	36966	63034	10.01157 01160	10.64248 64194	50 49
12	35860	98837	37023	62977	01163	64140	48
13	35914	98834	37080	62920	01166	64086	47
14	35968	98831	37137	62863	01169	64032	
15	36022	98828	37193	62807	01172	63978	45
16	36075	98825	37250	62750	01175	63925	44
17	36129	98822	37306	62694	01178	63871	43
18 19	36182 36236	98819 98816	37363 37419	62637 62581	01181 01184	63818 63764	42
20	9.36289						
20 21	36342	9.98813 98810	9.37476 37532	10.62524 62468	10.01187 01190	10.63711 63658	40 39
22	36395	98807	37588	62412	01193	63605	38
23	36449	98804	37644	62356	01196	63551	37
24	36502	98801	37700	62300	01199	63498	36
25	36555	98798	37756	62244	01202	63445	35
26	36608	98795	37812	62188	01205	63392	34
27 28	36660	98792	37868	62132	01208	63340	33
26 29	36713 36766	98789 98786	37924 37980	62076 62020	01211 01214	63287 63234	32
30	9.36819		9.38035	10.61965	10.01217	10.63181	30
30 31	36871	9.98783 98780	38091	61909	01220	63129	29
32	36924	98777	38147	61853	01223	63076	28
33	36976	98774	38202	61798	01226	63024	27
34	37028	98771	38257	61743	01229	62972	26
35	37081	98768	38313	61687	01232	62919	25
36	37133	98765	38368	61632	01235	62867	24
37 38	37185	98762	38423	61577	01238 01241	62815	23
39	37237 37289	98759 98756	38479 38534	61521 61466	01241	62763 62711	21
40	9.37341		9.38589		10.01247		20
41	37393	9.98753 98750	38644	10.61411 61356	01250	10.62659 62607	19
42	37445	98746	38699	61301	01254	62555	18
43	37497	98743	38754	61246	01257	62503	17
44	37549	98740	38808	61192	01260	62451	16
45	37600	98737	38863	61137	01263	62400	15
46	37652	98734	38918	61082	01266	62348	14
47 48	37703 37755	98731 98728	38972 39027	61028 60973	01269 01272	62297 62245	13
49	37806	98725	39027	60918	01272	62194	11
50	9.37858	9.98722	9.39136	10.60864	10.01278	10.62142	10
50 51	37909	9.98722	39190	60810	01281	62091	9
52	37960	98715	39245	60755	01285	62040	8
53	38011	98712	39299	60701	01288	61989	7
54	38062	98709	<b>3</b> 9353	60647	01291	61938	6
55	38113	98706	39407	60593	01294	61887	5
56	38164	98703	39461	60539	01297	61836	4
57 58	38215	98700	39515	60485	01300	61785 61794	3 2
58 59	38266 38317	98697 98694	39569 <b>39</b> 623	60431 60377	01303 01306	61734 61683	1
60	38368	98690	39677	60323	01310	61632	Ô.
<u> </u>	Co-sine.				Co-secant	Secant.	M.
<u> </u>	-u-sine.	Sine.	Co-tang.	Tangent.	Jusose-o-	Decant.	141.

#### 122 Artificial Sines, Tang. and Sec. 14 Degrees.

0         9.38368         9.98690         9.39677         10.60323         10.01310         10.6163           1         33418         98687         39731         60269         01313         6158           2         33469         98684         39785         60215         01316         6163           3         33519         98681         39838         60162         01319         6143           5         38620         98671         39999         60001         01322         6143           7         38721         98668         40052         59948         01332         6127           9         38821         98665         40106         59894         01332         6127           9         38821         98665         40166         59894         01332         6127           10         9.38871         98655         40266         59734         01348         6102           11         38921         98656         40266         59734         01346         6102           12         38971         98654         40372         59628         01351         6097           12         39971         98649         40372	-	Co secont	Secant.	Costanu	Tangent.	Co-sine.	Sine.	L M
1   33418   98687   39731   60269   01313   6158     2   38469   98684   39785   60215   01316   6153     3   38519   98681   39838   60162   01319   6148     4   38570   98678   39892   60108   01322   6143     5   38620   98675   39945   60055   01325   6133     6   38670   98671   39999   60001   01329   6153     7   38721   98668   40052   59948   01332   6127     8   38771   98668   40106   59894   01333   6127     9   38821   98662   40159   59841   01338   6117     10   9.38871   9.98559   9.40212   10.59788   10.01341   10.6112     11   38921   98656   40266   59734   01344   6107     12   33971   998656   40319   59681   01348   6102     13   39021   98649   40372   59682   01351   6097     14   39071   98644   40425   59575   01354   6092     15   39121   98643   40478   59522   01357   6067     16   39170   98640   40531   59469   01360   6083     17   39220   98633   40636   59344   01364   6073     18   39270   98638   40636   59344   01367   6073     19   39319   98623   40699   59311   01370   6068     20   9.39369   9.98827   9.40742   10.59258   10.01373   10.6063     20   9.39369   9.98627   40795   59205   01377   6058     22   39467   98620   40847   59153   01380   6048     23   39517   99617   40900   59100   01383   6048     24   39566   98614   40952   59048   01386   6043     25   39615   99610   41005   58995   01390   6033     26   39664   99607   41077   58943   01393   6033     27   39713   98604   41109   58891   01396   6022     28   39762   98601   41161   58839   01399   6022     29   39811   98597   41246   58859   01406   6043     30   9.39860   9.98594   41318   58682   01409   6024     30   9.39860   9.98594   41318   58682   01409   6024     30   9.39860   9.98594   41318   58682   01409   6024     31   39909   98591   41316   58839   01399   6022     33   34   40055   98581   41474   58526   01419   5994     34   40055   98581   41474   58526   01405   5994     35   40103   98558   41836   58164   01442   5966     36   40152   98555   41836   58164   01442   5966     36	-00	Co-secant		Co-tang.				M.
1	60 59							
3   38519   98681   39838   60162   01319   6148	58	61531						
5         38620         98675         39945         60055         01325         6138           6         38670         98671         39999         60001         01329         6133           7         38711         98665         40106         59894         01335         6122           8         38771         98665         40106         59894         01335         6112           10         9.38871         9.98659         9.40212         10.59788         10.01341         10.6112           11         33921         98656         40266         59734         01344         6102           12         33971         98652         40319         59681         01348         6102           13         39021         98649         40372         59628         01351         6067           14         33971         98643         40478         59522         01357         6067           15         39121         98643         40531         59469         01366         6073           16         39170         98633         40636         59364         01367         6073           17         33219         98623         40795	57	61481				98681		
C	56	61430	01322	60108			38570	
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8         38771         98665         40106         59894         01335         6122           10         9.38871         9.98659         9.40212         10.59788         10.01341         10.6112           11         38921         98652         40319         59681         01348         6102           12         38971         98652         40319         59681         01348         6102           13         39021         98649         40372         59628         01357         6097           14         39071         98643         40478         59522         01357         6097           16         39170         98640         40531         59469         01360         6083           17         39220         98636         40584         59416         01364         6073           18         39270         98633         40636         59364         01367         6073           19         39319         98630         40689         59311         01370         6068           21         39418         98627         9.40742         10.59258         10.01373         10.603           21         39419         98627         <	54	61330						
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11         38921         98656         40266         59734         01344         6107           12         38971         98652         40319         59681         01348         6102           13         39021         98649         40372         59628         01351         6097           14         39071         98640         40425         59575         01354         6092           16         39170         98630         40531         59469         01360         6083           17         39220         98633         40636         59364         01367         6073           19         39319         98630         40689         59311         01367         6073           19         39319         98630         40636         59364         01367         6073           20         9.39369         9.98627         9.40742         10.59258         10.01373         10.6063           21         39418         98620         40847         59153         01373         10.6063           22         39467         98620         40847         59153         01380         6063           25         39615         98610         410	50							
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19								
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24         39566         98614         40952         59048         01386         6043           25         39615         98610         41005         58995         01390         6038           26         39664         98607         41057         58943         01393         6032           27         39713         98604         41109         58891         01399         6022           28         39762         98601         41161         58839         01399         6023           29         39811         98597         41214         58786         01403         6018           30         9.38860         9.98594         9.41266         10.58734         10.01406         10.6014           31         39909         98591         41318         58682         01409         6009           32         39958         98588         41370         58630         01412         6004           33         40006         98584         41474         58526         01419         5993           34         40055         98581         41578         58422         01426         5984           37         40200         98571         41629<		60533						
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26         39664         98607         41057         58943         01393         6033           27         39713         98604         41109         58891         01396         6028           28         39762         98601         41161         58839         01399         6023           29         39811         98597         41214         58786         01403         6018           30         9.39860         9.98594         9.41266         10.58734         10.01406         10.6014           31         39909         98591         41318         58682         01409         6009           32         39958         98588         41370         58630         01412         6004           33         40006         98584         41474         58526         01419         5998           34         40055         98581         41474         58526         01419         5998           36         40152         98574         41578         58422         01426         5984           37         40200         98571         41629         58371         01432         5976           38         40249         98566         41733<	36	60434						
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33         40006         98584         41422         58578         01416         5999           34         40055         98581         41474         58526         01419         5994           35         40103         98578         41526         58474         01422         5986           36         40152         98574         41578         58422         01426         5984           37         40200         98571         41629         58371         01429         5986           38         40249         98568         41681         58319         01432         5975           40         9.40346         9.98561         9.41784         10.58216         10.01439         10.5965           41         40394         98558         41836         58164         01442         5960           41         40394         98558         41836         58164         01442         5960           42         40442         98555         41887         58113         01445         5960           43         40490         98551         41939         58061         01449         5951           44         40538         98548         42941<	29	60091						
34         40055         98581         41474         58526         01419         5994           35         40103         98578         41526         58474         01422         5988           36         40152         98574         41578         58422         01426         5984           37         40200         98571         41629         53371         01429         5986           38         40249         98568         41681         58319         01432         5975           39         40297         98565         41733         58267         01435         5970           40         9.40346         9.98561         9.41784         10.58216         10.01439         10.5965           41         40394         98558         41836         58164         01442         5960           42         40442         98555         41887         58113         01445         5965           43         40490         98551         41939         58061         01449         5951           44         40538         98548         41990         58010         01455         5946           45         40586         98545         42041<	28	60042	01412	58630	41370	98588	39958	32
35         40103         98578         41526         58474         01422         5985           36         40152         98574         41578         58422         01426         5984           37         40200         98571         41629         58371         01429         5986           38         40249         98568         41681         58319         01432         5976           39         40297         98565         41733         58267         01435         5970           40         9.40346         9.98561         9.41784         10.58216         10.01439         10.5965           41         40394         98558         41836         58164         01442         5960           42         40442         98555         41837         58113         01445         5955           43         40490         98551         41939         58061         01449         5951           44         40538         98548         41990         58010         01455         5941           45         40586         98545         42041         57959         01455         5941           46         40634         98541         42093<		59994						
36         40152         98574         41578         58422         01426         5984           37         40200         98571         41629         53871         01429         5986           38         40249         98568         41681         58319         01432         5975           39         40297         98565         41733         58267         01435         5970           40         9.40346         9.98561         9.41784         10.58216         10.01439         10.5965           41         40394         98558         41836         58164         01442         5960           42         40442         98555         41887         58113         01445         5955           43         40490         98551         41939         58061         01449         5951           44         40538         98548         41990         58010         01452         5946           45         40586         98545         42041         57959         01455         5941           46         40634         98541         42093         57907         01459         5936           47         40662         98538         42144<		59945						
37         40200         98571         41629         58371         01429         5980           38         40249         98568         41681         58319         01432         5976           39         40297         98565         41733         58267         01435         5976           40         9.40346         9.98561         9.41784         10.58216         10.01439         10.5965           41         40394         98558         41836         58164         01442         5960           42         40442         98555         41887         58113         01445         5960           43         40490         98551         41939         58061         01449         5951           44         40538         98548         41990         58010         01452         5946           45         40586         98545         42041         57959         01455         5931           46         40634         98541         42093         57907         01459         5936           47         40682         98538         42144         57856         01462         5931           48         40730         98525         42246<	25	59897						
38         40249         98568         41681         58319         01432         5975           39         40297         98565         41733         58267         01435         5976           40         9.40346         9.98561         9.41784         10.58216         10.01439         10.5965           41         40394         98558         41836         58164         01442         5960           42         40442         98555         41887         58113         01445         5960           43         40490         98551         41939         58061         01449         5951           44         40538         98548         41990         58010         01452         5946           45         40536         98545         42041         57959         01455         5936           46         40634         98541         42093         57907         01459         5936           47         40682         98538         42144         57856         01462         5931           48         40730         98535         42195         57805         01465         5927           49         40778         98531         42246<								
39         40297         98565         41733         58267         01435         5970           40         9.40346         9.98561         9.41784         10.58216         10.01439         10.5965           41         40394         98558         41836         58164         01442         5960           42         40442         98555         41887         58113         01445         5955           43         40490         98551         41939         58061         01449         5951           44         40538         98548         41990         58010         01452         5946           45         40586         98545         42041         57959         01455         5941           46         40634         98541         42093         57907         01459         5936           47         40662         98538         42144 <t>57856         01462         5931           48         40730         98535         42195         57805         01465         5922           49         40778         98531         42246         57754         01469         5922           50         9.40825         9.98528         9.4</t>	22	59751						
41         40394         98558         41836         58164         01442         5960           42         40442         98555         41887         58113         01445         5955           43         40490         98551         41987         58010         01449         5951           44         40538         98548         41990         58010         01452         5946           45         40586         98545         42041         57959         01455         5941           46         40634         98541         42093         57907         01459         5936           47         40662         98538         42144         57856         01462         5931           48         40730         98535         42195         57805         01465         5922           49         40778         98531         42246         57754         01469         5925           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912		59703						
41         40394         98558         41836         58164         01442         5960           42         40442         98555         41887         58113         01445         5955           43         40490         98551         41939         58061         01449         5951           44         40538         98548         41990         58010         01452         5946           45         40586         98545         42041         57959         01455         5941           46         40634         98541         42093         57907         01459         5936           47         40662         98538         42144         57856         01462         5931           48         40730         98535         42195         57805         01465         5922           49         40778         98531         42246         57754         01469         5922           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912	20	10.59654	10.01439	10.58216	9.41784	9.98561	9.40346	40
42         40442         98555         41887         58113         01445         5955           43         40490         98551         41939         58061         01449         5951           44         40538         98548         41990         58010         01452         5946           45         40586         98545         42041         57959         01455         5941           46         40634         98541         42093         57907         01459         5936           47         40682         98538         42144         57856         01462         5931           48         40730         98535         42195         57805         01465         5927           49         40778         98531         42246         57754         01469         5926           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912		59606						
44         40538         98548         41990         58010         01452         5946           45         40586         98545         42041         57959         01455         5941           46         40634         98541         42093         57907         01459         5936           47         40682         98538         42144         57856         01462         5931           48         40730         98535         42195         57805         01465         5927           49         40778         98531         42246         57754         01469         5922           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912	18	59558	01445	58113				
45         40586         98545         42041         57959         01455         5941           46         40634         98541         42093         57907         01459         5936           47         40682         98538         42144         57856         01462         5931           48         40730         98535         42195         57805         01465         5927           49         40778         98531         42246         57754         01469         5922           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912		59510						
46         40634         98541         42093         57907         01459         5936           47         40682         98538         42144         57856         01462         5931           48         40730         98535         42195         57805         01465         5927           49         40778         98531         42246         57754         01469         5922           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912		59462						
47         40682         98538         42144         57856         01462         5931           48         40730         98535         42195         57805         01465         5927           49         40778         98531         42246         57754         01469         5922           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912		59414						
48         40730         98535         42195         57805         01465         5927           49         40778         98531         42246         57754         01469         5922           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912								
49         40778         98531         42246         57754         01469         5922           50         9.40825         9.98528         9.42297         10.57703         10.01472         10.5917           51         40873         98525         42348         57652         01475         5912		59270						
51 40873 98525 42348 57652 01475 5912		59222					49778	49
51 40873 98525 42348 57652 01475 5912	10	10.59175		10.57703	9.42297	9.98528	9.40825	50
	9	59127		57652	42348	1 .		
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8	59079					40921	52
		59032						
	6	58984						
II so ! dadd ooseel Till III	5 4	58937 58889						
H rw   Addres   Gorge   Till   Till	3	58849 58842						
58 41205 98501 42704 57296 01499 5879	2	58795						58
59 41252 98498 42755 57245 01502 5874	Ĩ	58748				<b>9</b> 8498	41252	59
60 41300 98494 42805 57195 01506 5870	0	58700			42805			60
Co-sine. Sine. Co-tang. Tangent. Co-secant Secant.	M.	Secant.	Co-secant	Tangent.	Co-tang.	Sine.	Co-sine.	

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.41300	9.98494	9.42805	10.57195	10.01506	10.58700	60
i	41347	98491	42856	57144	01509	58653	59
2	41394	98488	42906	57094	01512	58606	58.
3	41441	98484	42957	57043	01516	58559	57
4	41488	98481	43007	56993	01519	58512	56
5	41535	98477	43057	56943	01523	58465	55
6	41582 41628	98474 98471	43108 43158	56892 56842	01526 01529	58418 58372	54 53
8	41675	98467	43208	56792	01523	58325	52
9	41722	98464	43258	56742	01536	58278	51
10	9.41768	9.98460	9.43308	10.56692	10.01540	10.58232	50
11	41815	98457	43358	56642	01543	58185	49
12	41861	98453	43408	56592	01547	58139	48
13	41908	98450	43458	56542	01550	58092	47
14	41954	98447	43508	56492	01553	58046	46
15 16	42001 42047	98443 98440	43558 43607	56442 56393	01557 01560	57999 57953	45 44
17	42093	98436	43657	56343	01564	57907	43
18	42140	98433	43707	56293	01567	57860	42
19	42186	98429	43756	56244	01571	57814	41
20	9.42232	9.98426	9.43806	10.56194	10.01574	10.57768	40
21	42278	98422	43855	56145	01578	57722	39
22	42324	98419	43905	<b>5609</b> 5	01581	57676	38
23	42370	98415	43954	56046	01585	57630	37
24	42416	98412	44004	55996	01588	57584	36
25 26	42461 42507	98409 <b>9</b> 8405	44053 4410 <del>2</del>	55947 55898	01591 01595	57539 57493	35 34
27	42553	98402	44102	55849	01598	57447	33
28	42599	98398	44201	55799	01602	57401	32
29	42644	98395	44250	55750	01605	57356	31
30	9.42690	9.98391	9.44299	10.55701	10.01609	10.57310	30
31	42735	98388	44348	55652	01612	57265	29
32	42781	98384	44397	55603	01616	57219	28
33	42826	98381	44446	55554	01619	57174	27 26
34 35	42872 42917	98377 98373	44495 44544	55505 55456	01623 01627	57128 57083	25
36	42962	98370	44592	55408	01630	57038	24
37	43008	98366	44641	55359	01634	56992	23
38	43053	98363	44690	55310	01637	56947	22
39	43098	98359	44738	55262	01641	56902	21
40	9.43143	9.98356	9.44787	10.55213	10.01644	10.56857	20
41	43188	98352	44836	55164	01648	56812	19
42	43233	98349	44884	55116	01651	56767	18
43 44	43278 43323	98345 98342	44933 44981	55067 55019	01655 01658	56722 56677	17 16
45	43367	98338	45029	54971	01662	56633	15
46	43412	98334	45078	54922	01666	56588	14
47	43457	98331	45126	54874	01669	56543	13
48	43502	98327	45174	54826	01673	56498	12
49	43546	98324	45222	54778	01676	56454	11
50	9.43591	9.98320	9.45271	10.54729	10.01680	10.56409	10
51	43635	98317	45319	54681	01683	56365	9 8
5 <b>2</b>	43680 43724	98313	45367	54633 54585	01687 01691	56320 56276	7
53 54	43769	98309 98306	45415 45463	54537	01694	56231	6
55	43813	98302	45511	54489	01698	56187	5
56	43857	98299	45559	54441	01701	56143	5 4
57	43901	98295	45606	54394	01705	56099	3
58	43946	98291	45654	54346	01709	56054	2
59	43990	98288	45702	54298	01712	56010	1
60	44034	98284	45750	54250	01716	55966	0
ļ	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

#### 124 Artificial Sines, Tang. and Sec. 16 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	-
0	9.44034	9.98284	9.45750	10.54250	10.01716	10.55966	60
ĭ	44078	98281	45797	54203	01719	55922	59
2	44122	98277	45845	54155	01723	55878	58
3	44166	98273	45892	54108	01727 01730	55834	57
4 5	44210 44253	98270 98266	45940 45987	54060 54013	01730	55790 55747	56 55
6	44297	98262	46035	53965	01738	55703	54
7	44341	98259	46082	53918	01741	55659	53
8	44385	98255	46130	53870	01745	55615	52
9	44428	98251	46177	53823	01749	55572	51
10	9.44472	9.98248	9.46224	10.53776	10.01752	10.55528	50
11 12	44516 44559	98244 98240	46271 46319	53729 53681	01756 01760	55484 55441	49 48
13	44602	98237	46366	53634	01763	55398	47
14	44646	98233	46413	53587	01767	55354	46
15	44689	98229	46460	53540	01771	55311	45
16	44733	98226	46507	53493	01774	55267	44
17	44776	98222	46554	53446	01778	55224	43
18 19	44819 44862	98218 98215	46601 46648	53399 53352	01782 01785	55181 55138	42
20	9.44905	9.98211	9.46694	10.53306	10.01789	10.55095	40
21	44948	98207	46741	53259	01793	55052	39
22	44992	98204	46788	53212	01796	55008	38
23	45035	98200	46835	53165	01800	54965	37
24	45077	98196	46881	53119	01804	54923	36
25 26	451 <b>2</b> 0 45163	98192 98189	46928 46975	53072 53025	01808 01811	54880 54837	35 34
27	45206	98185	47021	52979	01815	54794	33
28	45249	98181	47068	52932	.01819	54751	32
29	45292	98177	47114	52886	01823	54708	31
30	9.45334	9.98174	9.47160	10.52840	10.01826	10.54666	30
31	45377	98170	47207	52793	01830	54623	29
32 33	45419 4546 <b>2</b>	98166 98162	47253 47299	52747 52701	01834 01838	54581 54538	28 27
34	45504	98159	47346	52654	01841	54496	26
35	45547	98155	47392	52608	01845	54453	25
36	45589	98151	47438	52562	01849	54411	24
37	45632	98147	47484	52516	01853	54368	23
38 39	45674 45716	98144 98140	47530 47576	52470 52424	01856 01860	54326 54284	22 21
40	9.45758	9.98136	9.47622	10.52378	10.01864	10.54242	20
41	45801	98132	47668	52332	01868	54199	19
42	45843	98129	47714	52286	01871	54157	18
43	45885	98125	47760	52240	01875	54115	17
44	45927	98121	47806	52194	01879	54073	16
45 46	45969 46011	98117 98113	47852 47897	52148	01883	54031	15 14
47	46053	98110	47943	52103 52057	01887 01890	53989 53947	13
48	46095	98106	47989	52011	01894	53905	12
49	46136	98102	48035	51965	01898	53864	11
50	9.46178	9.98098	9.48080	10.51920	10.01902	10.53822	10
51	46220	98094	48126	51874	01906	53780	9
52 53	46262	98090	48171	51829	01910	53738	8
53 54	46303 46345	98087 98083	48217 48262	51783 51738	01913 01917	53697 53655	6
55	46386	98079	48307	51693	01921	53614	5
56	46428	98075	48353	51647	01925	53572	4
57	46469	98071	48398	51602	01929	53531	3
58 59	46511	98067	48443	51557	01933	53489	2
60	46552 46594	98063 98060	48489 18534	51511 51466	01937 01940	53448 53406	1 0
<u> </u>	Co-sine.	Sine.					M.
_	CO-SILIE.	оше.	Co-tang.	1 angent.	Co-secant	, Secant.	) 1VI.

1 4 2 4 3 4 4 4 5 4 6 4 7 4	6594 9.98060 6635 98056 6676 98052 6717 98048 6758 98044 6800 98040	7 angent.  9.48534 48579 48624 48669 48714	Co-tang. 10.51466 51421 51376	Secant. 10.01940 01944	10.53406 53365	60
1 4 2 4 3 4 4 4 5 4 6 4 7 4	6635 98056 6676 98052 6717 98048 6758 98044 6800 98040	48579 48624 48669	51421			7.7
3 4 4 4 5 4 6 4 7 4	6717 98048 6758 98044 6800 98040	48669	51376		33303	59
4 4 5 4 6 4 7 4	6758 98044 6800 98040			01948	53324	58
5 4 6 4 7 4	6800 98040	1 48/14	51331	01952	53283 53242	57 56
6 4		48759	51286 51241	01956 01960	53242 53200	56 55
7 4	6841 98036	48804	51196	01964	53159	54
	6882 98032		51151	01968	53118	<b>5</b> 3
	6923 98029	48894	51106	01971		52
<b></b>	6964 98025	48939	51061	01975	53036	51
	7005 9.98021	9.48984	10.51016	10.01979	10.52995	50
	7045 98017 7086 98013	49029 49073	50971 509 <b>2</b> 7	01983 01987	52955 52914	49 48
	7127 98009		50882	01991	873	47
	7168 98005		50837	01995	52832	46
	7209 98001		50793	01999	52791	45
	7249 9799		50748	02003	52751	44
	17290 97993 17330 97989		50704 50659	02007 02011	52710 52670	43 42
<b>BR</b> . 1	17371 97980		50615	02011	52629	41
	7411 9.97989		10.50570	10.02018	10.52589	40
	7452 97978		50526	02022	52548	39
	7492 97974		50481	02026	52508	38
	17533 97970		50437	02030	52467	37
	17573 97966 17613 97969		50393 50348	02034 02038	52427 52387	36 35
(	17654 9795		50304	02038	52346	34
<b>E</b> 1 1	7694 9795		50260	02046	52306	33
	17734 9795		50216	02050	52266	32
29	17774 9794	49828	50172	02054	52226	31
	17814 9.9794		10.50128	10.02058		30
	17854 9793 17894 9793		50084 50040	02062		29 28
	17894 9793 17934 9793			02066 02070		27
	47974 9792			02074		26
	48014 9792			02078	51986	25
	48054 9791			02082		24
<b>34</b>	48094 9791			02086		23
	48133   9791 48173   9790			02090		21
	48213 9.9790			10.02098		20
	48252 9789			02102		1 1
42	48292 9789	4 50398		02106	51708	18
43	48332 9789			02110		
44 45	48371 9788 48411 9788			02114 02118		
	48450 9787			02123		
	48490 9787			02126		1 7 7 1
48	48529 9787	0 50659	49341	02130	51471	12
49	48568 9786			02134		
	48607 9.9786			10.02139	1 -0.0.0.0	
51	48647 9785			02143		
52 53	48686 9785 48725 9784	<u> </u>		02147 02151		
54	48764 9784					
55	48803 9784					5
56	48842 9783			0216	51158	4
57	48881 9783 48920 9789					
58 5 <b>9</b>	48920 9789 48959 9789					
60	48998 9782					
	sine. Sine.	Co-tang.		Co-secan		M.

## 126 Artificial Sines, Tang. and Sec. 18 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
M. 0	9.48998	9.97821	9.51178	10.48822	10.02179	10.51002	60
lĭ	49037	97817	51221	48779	02183	50963	59
2	49076	97812	51264	48736	02188	50924	58
3	49115	97808	51306	48694	02192	50885	57
4	49153	97804	51349	48651	02196	50847	56
5 6	49192 49231	97800 97796	51392 51435	48608 48565	02200 02204	50808 50769	55 54
7	49269	97792	51478	48522	02208	50731	53
8		97788	51520	48480	02212	50692	52
9	49347	97784	5156 <b>3</b>	48437	02216	50653	51
10	9.49385	9.97779	9.51606	10.48394	10.02221	10.50615	50
11	49424	97775	51648	48352	02225	50576	49
12 13	49462	97771 97767	51691 51734	48309 48266	02229 02233	50538 50500	48 47
14	490	97763	51776	48224	02237	50360	46
15	49577	97759	51819	48181	02241	50423	45
16	49615	97754	51861	48139	02246	50385	44
17	49654	97750	51903	48097	02250	50346	43
18 19	49692 49730	97746 97742	51946	48054 48012	02254 02258	50308 50270	42 41
	9.49768	9.97738	51988	10.47969	10.02262		40
20 21	49806	9.97738	9.52031 52073	47927	02262	10.50232 50194	39
22	49844	97729	52115	47885	02271	50156	38
23	49882	97725	<b>52</b> 15 <b>7</b>	47843	02275	50118	37
24	49920	97721	52200	47800	02279	50080	36
25 26	49958 49996	97717 97713	52242 52284	47758 47716	02283 02287	50042 50004	35 34
27	50034	97708	52326	47674	02292	49966	33
28	50072	97704	52368	47632	02296	49928	32
29	50110	97700	52410	47590	02300	49890	31
30	9.50148	9.97696	9.52452	10.47548	10.02304	10.49852	30
31	50185	97691	52494	47506	02309	49815	29
32 33	50223 50261	97687 97683	5 <b>2</b> 536 5 <b>2</b> 578	47464 47422	02313 02317	49777 49739	28 27
34	50298	97679	52620	47380	02311	49702	26
35	50336	97674	52661	47339	02326	49664	25
36	50374	97670	52703	47297	02330	49626	24
37	50411	97666	52745	47255	02334	49589	23
38 39	50449 50486	97662 97657	52787 52829	47213 47171	023 <b>3</b> 8 02343	49551 49514	22 21
40	9.50523	9.97653	9.52870	10.47130	10.02347	10.49477	20
41	50561	97649	52912	47088	02351	49439	19
42	50598	97645	<b>529</b> 53	47047	02355	49402	18
43	50635	97640	52995	47005	02360	49365	17
44	50673	97636	5 <b>3</b> 037	46963	02364	49327	16 15
45 46	50710 50747	97632 97628	53078 53120	46922 46880	02368 <del>0</del> 2372	49290 49253	14
47	50784	97623	53161	46839	02377	49216	13
48	50821	97619	53202	46798	02381	49179	12
49	50858	97615	53244	46756	02385	49142	11
50	9.50896	9.97610	9.53285	10.46715	10.02390	10.49104	10
51 52	50933 50970	97606 97602	53327 53368	46673 46632	02394 02398	49067 49030	8
53	51007	97597	53409	46591	02398	49030 48993	7
54	51043	97593	53450	46550	02407	48957	6
55	51080	97589	53492	46508	02411	48920	5
56	51117	97584	53533	46467	02416	48883	4
57 58	51154 51191	97580 97576	53574	46426 46385	02420 02424	48846 48809	3 2
59	51227	97571	53615 53656	46344	02424	48773	1
60	51264	97567	53697	46303	02433	48736	ō
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.
'		7.3					

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.51264	9.97567	9.53697	10.46303	10.02433	10.48736	60
1	51301	97563	53738	46262	02437	48699	59
2	51338	97558	53779	46221	02442	48662	58
3	51374	97554	53820	46180	02446	48626	57
4	51411	97550	53861	46139	02450	48589	56
5	51447	97545	53902	46098	02455	48553	55
67	51484	97541	53943	46057	02459	48516	54
8	51520 51557	97536 97532	53984 54025	46016 45975	02464 02468	48480 48443	53 52
9	51593	97528	54025 54065	45935	02408	48407	51
10	9.51629	9.97523	9.54106	10.45894	10.02477	10.48371	50
11	51666	9.97519	54147	45853	02481	48334	49
12	51702	97515	54187	45813	02485	48298	48
13	51738	97510	54228	45772	02490	48262	47
14	51774	97506	54269	45731	02494	48226	1
15	<b>5</b> 1811	97501	54309	45691	02499	48189	45
16	51847	97497	54350	45650	02503	48153	
17	51883	97492	54390	45610	02508	48117	43
18	51919	97488	54431	45569	02512	48081	42
19	51955	97484	54471	45529	02516	48045	41
20	9.51991	9.97479	9.54512	10.45488	10.02521	10.48009	40
21 22	52027	97475	54552	45448	02525	47973	
23	52063 52099	97470 97466	54593 54633	45407 45367	02530 02534	47937 47901	38 37
24	52135	97461	54673	45327	02534	47865	36
25	52171	97457	54714	45286	02543	47829	
26	52207	97453	54754	45246	02547	47793	
27	52242	97448	54794	45206	02552	47758	
<b>.2</b> 8	52278	97444	54835	45165	02556	47722	32
29	52314	97439	54875	45125	02561	47686	31
30	9.52350	9.97435	9.54915	10.45085	10.02565	10.47650	30
31	52385	97430	54955	45045	02570	47615	29
32	52421	97426	54995	• 45005	02574	47579	28
33 34	52456 52492	97421	55035	44965	02579	47544	27 26
35	52492 52527	97417 97412	55075 55115	44925 44885	02583 02588	47508 47473	
36	52563	97408	55155	44845	02592	47437	24
37	52598	97403	55195	44805	02597	47402	23
38	52634	97399	55235	44765	02601	47366	22
39	52669	97394	55275	44725	02606	47331	21
40	9.52705	9.97390	9.55315	10.44685	10.02610	10.47295	20
41	52740	97385	55355	44645	02615	47260	19
42	52775	97381	55395	44605	02619	47225	18
43	52811	97376	55434	44566	02624	47189	17
44	52846	97372	55474	44526	02628	47154	16
45 46	52881 50016	97367	55514	44486	02633	47119	15
47	52916 52951	97363 97358	55554	44446	02637 02642	47084	14
48	52986	97353	55593 55633	44407 44367	02642	47049 47014	12
49	53021	97349	55673	44307 44327	02651	46979	11
50	9.53056	9.97344	9.55712	10.44288	10.02656	10.46944	10
51	53092	97340	55752	44248	02660	46908	9
52	53126	97335	55791	44209	02665	46874	8
53	53161	97331	55831	44169	02669	46839	7
54	53196	97326	55870	44130	02674	46804	6
55	53231	97322	55910	44090	02678	46769	5
56	53266	97317	55949	44051	<b>026</b> 83	46734	• 4
57	53301	97312	55989	44011	02688	46699	3
58 59	53336 53370	97308	56028	43972	02692	46664	2
60	53370 53405	97303 97299	56067 56107	<b>43</b> 933 <b>43</b> 893	02697	<b>4663</b> 0 <b>46</b> 595	1 0
- <u>``</u>	Co-sine,				02701 Co		
<u> </u>	. Ос-зіде.	DIDE.	Ou-tang. I	Tangent.	Co-secant	Secant.	.М.

М.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	-
	9.53405	9.97299	9.56107	10.43893	10.02701	10.46595	60
0	9.53405 5 <b>3</b> 440	97294	56146	43854	02706	46560	59
2	53475	97289	56185	43815	02711	46525	58
3	53509	97285	56224	43776	02715	46491	57
4	53544	97280	56264	43736	02720	46456	56
5	53578	97276	56303	43697	02724	46422	55
6	53613	97271	56342	43658	02729	46387	54
7	53647	97266	56381	43619	02734	46353	53
8	53682	97262	56420	43580	02738	46318	52
9	53716	97257	56459	43541	02743	46284	51
10	9.53751	9.97252	9.56498	10.43502	10.02748	10.46249	50
11	<b>537</b> 85	97248	56537	43463	02752	46215	49 48
12	53819	97243	56576	43424	02757 02762	46181 46146	47
13	53854	97238	56615 56654	43385 43346	02768	46112	46
14	53888	97234 97229	56693	43340	02771	46078	45
15 16	53922 53957	97229	56732	43268	02776	46043	44
717	53991	97220	56771	43229	02780	46009	43
18	54025	97215	56810	43190	02785	45975	42
19	54059	97210	56849	43151	02790	45941	41
20	9.54093	9.97206	9.56887	10.43113	10.02794	10.45907	40
21	54127	97201	56926	43074	02799	45873	39
22	54161	97196	56965	43035	02804	45839	38
23	54195	97192	57004	42996	02808	45805	37
24	542 <b>2</b> 9	97187	57042	42958	02813	45771	36
25	54263	97182	57081	42919	02818	45737	35
26	54297	97178	57120	42880	02822	45703 45669	34 33
27	5 <b>43</b> 31	97173	57158	42842 42803	02832	45635	32
28 29	54365 54399	97168 97163	57197 57235	42765	02837	45601	31
			9.57274	10.42726	10.02841	10.45567	30
30 31	9.54433 54466	9.97159 97154	9.57274 57312	42688	02846	45534	29
32	54500	97149	57351	42649	02851	45500	28
33	54534	97145	57389	42611	02855	45466	27
34	54567	97140	57428	42572	02860	45433	26
35	54601	97135	57466	42534	02865	45399	25
36	54635	97130	57504	42496	02870	45365	24
37	54668	97126	57543	42457	02874	45332	23
38	54702	97121	57581	42419	02879	45298	22
39	54735	97116	57619	42381	02884	45265	21
40	9.54769	9.97111	9.57658	10.42342	10.02889	10.45231	20
41	54802	97107	57696	42304	02893	45198	19
42	54836	97102	57734	42266	02898	45164	18 17
43	54869	97097	57772	42228 42190	02903 02908	45131 45097	16
44 45	54903 54936	97092 97087	57810 57849	42190 42151	02908	45064	15
46	54936 54969	97083	57887	42131	02917	45031	14
47	55003	97078	57925	42075	02922	44997	13
48	55036	97073	57963	42037	02927	44964	12
49	55069	97068	58001	41999	02932	44931	11
50	9.55102	9.97063	9.58039	10.41961	10.02937	10.44898	10
51	55136	97059	58077	41923	02941	44864	9
52	55169	97054	58115	41885	02946	44831	8
53	55202	97049	58153	41847	02951	44798	7
54	55235	97044	58191	41809	02956	44765	6
55	55268	97039	58229	41771	02961	44732	5
56 57	55301	97035	58267	41733	02965	44699	4 3
58	55334	97030	58304 59940	41696	02970 02975	44666 44633	2
59	55367 55400	97025 97020	58342 58380	41658 41620	02980	44600	1
60	55433	97015	58418	41582	02985	44567	ő
<b>₩</b>	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.
L	, commut.	, ome.	· containe.	1 angenr	- CO-SCURING	. Decant.	1, 1,10

## Artificial Sines, Tang. and Sec. 21 Degrees. 129

_نے						100	
M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.55433	9.97015	9.58418	10.41582	10.02985	10.44567	60
1	55466	97010	<b>58455</b>	41545	02990	44534	59
. 5	55499	97005	58493	41507	02995	44501	58
3	<b>5</b> 5532	97001	<b>5</b> 8531	41469	<b>0</b> 2999	44468	57
4	<b>5</b> 5564	96996	58569	41431	03004	44436	56
5	55597	96991	58606	41394	03009	44403	55
6	55630	96986	8644	41356	03014	44370.	54
7	<b>5</b> 5663	96981	58681	41319	03019	44337	53
8	55695	96976	58719	41281	03024	44305	52
9	55728	96971	58757	41243	03029	44272	51
10.	9.55761	9.96966	9.58794	10.41206	10.03034	10.44239	50
	55793	96962	58832	41168	03038	44207	49
11 12	55826	96957	58869	41131	03043	44174	48
	55858	96952	58907	41093	03048	44142	47
13	,-			41056	03053	44109	46
14	55891	96947	58944 58981		03058	44109	
15	55923	96942 96937		41019 40981	03063	44044	45 44
16	55956		59019				
17	55988	96932	59056	40944	03068	44012	43
18	56021	96927	59094	40906	03073	43979	42
19	56053	96922	59131	<b>→ 40869</b>	03078	43947	41
20	9.56085	9.96917	9.59168	10.40832	10.03083	10.43915	40
21	56118	96912	59205	40795	03088	43882	39
22	56150	96907	59243	40757	03093	43850	38
23	56182	96903	59280	40720	03097	43818	37
24	<b>56215</b>	96898	59317	40683	03102	43785	36
25	56247	96893	59354	40646	03107	43753	35
26	56279	96888	59391	40609	03112	43721	34
27	56311	96883	59 <b>429</b>	40571	03117	43689	33
28	56343	96878	59466	40534	03122	43657	32
29	56375	96873	595 <b>03</b>	40497	03127,	43625	31
30	9.56408	9.96868	9.59540	10.40460	10.03132	10.43592	30
31	56440	96863	59577	40423	03137	43560	29
32	56472	96858	59614	40386	03142	43528	28
33	56504	96853	59651	40349	<b>9</b> 3147	43496	27
34	56536	96848	59688	40312	03152	43464	26
35	56568	96843	59725	40275	03157	43432	25
36	56599	96838	59762	40238	03162	43401	24
37	56631	96833	59799	40201	03167	43369	23
38	56663	96828	* 59835	40165	03172	43337	22
39	56695	96823	• 59872	40128	03177	43305	21
11							
40	9.56727	9.96818	9.59909	10.40091	10.03182	10.43273	20
41	56759	96813	59946	40054	03187	43241	19
42	56790	96808	59983	40017	03192	43210	18
43	56822	96803	60019	39981	03197	43178	17
44	56854	96798	60056	39944	03202	43146	16
45	5688 <b>6</b>	96793	60093	39907	03207	43114	15
46	56917	96788	60130	39870	. 03212	43083	14
47	56949	96783	60166	39834	03217	43051	13
48	56980	96778	60203	39797	• 03222	43020	12
49	57012	96772	60240	39760	03228	42988	11
50	9.57044	9.96767	9.60276	10.39724	10.03233	10.42956	10
51	57075	96762	60313	39687	03238	42925	9
52	57107	96757	60349	39651	03243	42893	8
53	57138	96752	60386	39614	03248	42862	7 1
54	57169		60422	39578.	03253	42831	-
55	57201	. 96742	60459	39541	03258	42799	5
56	57232	96737	60495	39505	03263	. 42768	4
57	57264	96732	60532	39468	03268	42736	3
58	57295	96727	60568	39432	63273	42705	2
59	57326	96722	60605	39395	03278	42674	1
60	57358	96717	60641	39359	03283	42642	ō
	Co-sine.	Sine.	Co-tang.		Co-secan		M.
ř	1 co-sme.	, Sine.	co-tang.	Tangent.	CO-secary	, secant.	171.

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# 130 Artificial Sines, Tang. and Sec. 22 Degrees.

1								
1	M.	Sine.	Co-sine.	Tangent.	Co-tang.	· Secant.	Co-secant	
1	0	9.57358	9.96717	9.60641	10.39359	10.03283	10.42642	60
•	1	57389	. 96711	60677	39323	03289	42611	
ı	2	57420	96706	60714	39286	03294	42580	59 58
1	3	57451	96701	60750	39250	03299	42549	57
	4	57482	96696	60786	39214	03304	42518	56
1	5 6	57514 5754 <b>5</b>	96691	60823	39177	03309	42486	55
ı	7	57576	96686 96681	60859 6089 <b>5</b>	39105	03314	42455	54
1	8	57607	96676	60931	39069	03319	424 <b>24</b> 42393	53
	9	57638	96670	60967	39033	Ø3330	42362	52 51
ı	10	9.57669	9.96665	9.61004	10.38996	10.03335		
	11	57700	96660	61040	38960	03340	10.42331 42300	50 49
1	12	57731	96655	61076	38924	03345	42269	48
ı	. 13	57762	96650	61112	38888	03350	42238	47
	14	57793	96645	61148	38852	03355	42207	46
1	15	57824	. 96640	. 61184	38816	03360	42176	45
ı	16	57855	96634	61220	38780	03366	42145	44
	17	57885	96629	61256	38744	.03371	42115	43
1	18	57916	96624	61292	<b>3</b> 8 <b>70</b> 8	03376	42084	42
Į	19	57947	96619	61320	38672	03381	42053	41
1	20	9.57978	9.96614	9.61364	10.38636	10.03386	10.42022	40
I	21	58008	96608	61400	38600	03392	41992	39
1	22	58039	96603	61436	38564	03397	41961	38
1	23 24	58070	96598	61472	38528	03402	41930	37
ı	25	58101 58131	96593	61508	38492	03407	41899	36
ı	26	581 <b>62</b>	96582 96582	61544 61579	38456	03412	41869	35
I	27	58192	96577	61615	38421 38385	03418 034 <b>2</b> 3	41838 41808	34 33
ł	28	58223	96572	61651	38349	03423	41777	32
I	29	58253	96567	61687	38313	03433	41747	31
Į	30	9.58284	9.96562	9.61722	10.38278	10.03438	10.41716	30
	31	58314	96556	61758	38242	03444	41686	29
ı	32	58345	, 96551	61794	38206	03449	41655	28
1	33	58375	<b>9</b> 6546	61830	38170	03454	41625	27
	34.	58406	96541	61865	38135	03459	41594	26
٠,	35	58436	96535	61901	38099	03465	41564	25
	36	58467	96530	61936	38064	03470	41533	24
ı	37	58497	96525	61972	38028	03475	41503	23
١	38 39	58527	96520	62008	37992	03480	41473	22
I		58557	96514	62043	37957	03486	41443	21
ı	40 41	9,58588	9.96509	9.62079	10.37921	10.03491	10.41412	20
I	41	58618 58648	96504	62114	37886	03496	41382	19
ı	43	58678	96498 96493	62150 62195	37850	03502	41352	18
ı	44	58709	96488	62185 62221	37815 27779	03507 03512	41322	17 16
I	45	58739	96483	62256	37744	03512	41291 41261	15
ı	46	58769	96477	62292	37708	03523	41231	14
ł	47	58799	96472	62327	37673	03528	41201	13
ı	48	588 <b>29</b>	96467	62362	37638	03533	41171	12
١	49	58859	96461	62398	37602	03539	41141	11
I	50	9.58889	9.96456	9.62433	10.37567	10.03544	10.41111	10
ı	51	58919	96451	62468	37532	03549	41081	9
1	52	58949	96445	62504	37496	03555	41051	8
ł	53 54	58979	96440	62539	37461	03560	41021	7
ı		59009	96435	62574	37426	03565.	40991	6
1	55 <b>56</b>	59039	96429	62609	37391	03571	40961	5
1	57	59069	96424	62645	37355	03576	40931	4
ı	58	59098 59128	96419 • <b>9</b> 6413	62680	37320 37285	03581	40902	3
ı	59	69158	96408	62715 62750	37285	03587 03592	40872 40842	2
1	60	59188	96403	62785	37215	03597	40812	ō
ı		Co-sine.	Sine	Co-tang.	Tangent.	Co-secant	Secant.	M.
ı			. ~.410,	OU-lang.	rangent.	OU-secant	Secant.	171.

F	M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
I		9.59188	9.96403	9.62785	10.37215	10.03597	10.40812	60
I	0	59218	96397	62820	37180	03603	40782	59
I	2	59247	96392	62855	37145	03608	40753	58
H	3	59277	96387	62890	37110	03613	40723	57
I	4	59307	96381	62926	37074	03619	40693.	56
H	5	59336	96376	62961	37039	03624	40664	55
ı	6	59366	96370	62996	37004	03630	40634	54
H	7	59396	<b>9</b> 63 <b>6</b> 5	63031	36969	03635	40604	53
H	8	59425	96360	63066	36934	<b>9</b> 3640	40575	52
۱	9	59455	96354	63101	36899	03646	40545	51
I	10	9.59484	9.96349	9.63135	10.36865	10.03651	10.40516	50
ı	11	59514	96343	63170	36830	03657	40486	49
ı	12	59543	96338	63205	36795	03662	40457	48
ı	13	59573	96333 96327	63240 63275	36760 36725	03667 03673	40427	47 46
ı	14	59602 59632	96322	63310	36690	03678	40398	45
۱	16	59661	96316	63345	36655	03684	40339	44
H	-	59690	96311	63379	36621	03689	40310	43
ı	18	59720	96305	63414	36586	03695	40280	42
۱	19	59749	96300	• 63449	36551,	03700	40251	41
ı	20	9.59778	9.96294	9.63484	10.36516	10.03706	10.40222	40
۱	21	59808	96289	63519	36481	03711	40192	39
1	22	59837	96284	63553	36447	03716	40163	38
ı	23	59866	96278	· 63588	36412	03722	40134	37
1	.24	59895	96273	63623	36377	03727	40105	36
	25	59924	96267	63657	36343	03733	40076	35
H	26	59954	96262	63692	36308	03738	40046	34
I	27	59983	96256	63726	36274	08744	40017	33
I	28	60012	96251	63761	36239	03749	39988	322
H	29	60041	96245	63796	36204	03755	39959	31
I	30	9.60070	9.96240	9.63830	10.36170	10.03760	10.39930	30
1	31 32	60099 60128,	96234 96229	63865 63899	3613 <b>3</b> 36101	03766 03771	39901 39872	29 28
4	33	60157	96223	63934	36066	03777	39843	27
ı	34	60186	96218	63968	36032	03782	39814	26
ı	35	60215	96212	64003	35997	03788	39785	25
ı	36	60244	96207	64037	35963	03793	39756	24
1	37	60273	96201	64072	35928	03799	39727	23
ı	38	60302	96196	64106	35894	03804	39698	22
ı	39	60331	96190	. 64140	35860	03810	39669	21
1	40	9.60359	9.96185	9.64175	10.35825	10.03815	10.39641	20
ŀ	41	60388	96179	64209	35791	03821	39612	.19
I	42	60417	96174	64243	35757	03826	39683	18
ı	43	60446	96168	64278	35722	.03832	39554	17
ı	44 45	60474 60503	96162 96157	64312 64346	35688	03838 03843	39526	16
1	46	60532	96151	64346	35654 35619	03843 03849	39497 39468	15
ı	47	60561	96146	64415	35585	03854	39408	13
4	48	60589	96140	64449	35551	03860	39411	12
١	49	60618	96135	64483	35517	03865	39382	11
ı	50	9.60646	9.96129	9.64517	10.35483	10.03871	10.39354	10
1	51	60675	96123	64552	. 35448	03877	39325	9
1	52	60704	96118	64586	35414	03882	39296	8
1	5 <b>3</b>	60732	96112	64620	<b>3</b> 5380	03888	39268	7
ı	54	60761	96107	64654	35346	.03893	39239	6
I	55	60789	96101	64688	35312	03899	39211	5
t	56	60818	96095	64722	35278	03905	39182	4
ı	57	60846	96090	64756	35244	03910	39154	3
ı	58 59	60875	96084	64790	35210	03916	39125	2
ı	60	60903 60931	96079	64824	35176	03921	39097	1
1	<del></del>		96073	64858	35142	03927	39069	
I		Co-sine.	Sine.	Co-tang.	rangent.	Co-secant	Secant.	М.

# 132 Artificial Sines, Tang. and Sec. 24 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.60931	9.96073	9.64858	10.35142	10.03927	10.39069	60
ĭ	60960	96067	64892	35108	. 03933	39040	59
2	60988	96062	64926	35074	03938	39012	58
3	61016	96056	64960	35040	03944	38984	57
4	61045	96050	64994	35006 34972	03950 03955	38955 38927	56 55
5 6	61073 61101	96045 96039	650 <b>2</b> 8 65062	34938	03961	38899	54
7	61129	96034	65096	34904	03966	38871	53
8	61158	90028	65130	34870	03972	38842	52
9	61186	96022	65164	34836	03978	38814	51
10	9.61214	9.96017	9.65197	10.34803	10.03983	10.38786	50
11	61242	96011	65231	34769	03989	38758	49
12	61270	96005	65265	34735	03995	38730	48 47
13	61298	96000	65299 65333	34701	• 04000 04006	38702 38674	46
14 15	61326 61354	95994 95988	65366	34667 34634	04006 04012	38646	45
16	61382	95982	65400	34600	04018	38618	.44
17	61411	95977	65434	34566	04023	38589	43
18	61438	95971	65467	34533	04029	38562	42
19 <sup>-</sup>	61466	95965	65501	34499	04035	38534	41
20	9.61494	9.95960	9.65535	10.34465	10.04040	10.38506	40
21	61522	95954	65568	34432	, 04046	38478	39
22	61550	95948	65602	34398 34364	04052	38450 38422	38 37
23 24	61578 61606	95942	65636 65669	34364 34331	, 04058 04063	38394	36
24 25	61634	95937 95931	65703	34297	04069	38366	35
26	61662	95925	65736	34264	04075	38338	34
27	61689	95920	65770	34230	04080	38311	33
28	61717	95914	65803	34197	04086	38283	32
29	61745	95908	65837	34163	04092	38255	31
30	9.61773	9.95902	9.65870	10.34130	10.04098	10.38227	30
31	61800	95897	65904	34096	. 04103	38200	29
32	61828	95891	65937	34063	04109	38172	28 27
33 34	61856 61883	95885 95879	65971 66004	34029 33996	04115 04121	38144 38117	26
35	61911	95873	66038	33962	04127	38089	25
36	61939	95868	66071	33929	04132	38061	24
37	61966	95862	66104	33896	04138	38034	23
38	61994	95856	66138	33862	04144	38006	22
39	62021	95850	66171	33829	04150	37979	21
40	9.62049	9.95844	9.66204	10.33796	10.04156	10.37951	20
41	62076	95839	66238	33762	04161	37924	19
42 43	<b>6</b> 2104 <b>6</b> 2131	95833	66271	33729 33696	04167 04173	37896 37869	18 17
43	62159	95827 95821	66337	33663	04179	37841	16
45	<b>62</b> 136	95815	66371	33629	04185	37814	15
46	62214	95810	66404	33596	04190	37786	14
47	6 <b>2</b> 241	95804	66437	33563	04196	37759	13
48.	62268	95798	66470	33530	04202	37732	12
49	62296	95792	66503	33497	• 04208	37704	11
50	9.62323	9.95786	9.66537	10.33463	10.04214	10.37677	10
51	62350	95780°	6657 <del>0</del> 66603	33430 33397	04220 04225	37650 37623	. 6
52 53	62377 62405	95775 95769	66636	33364	04223	37595	7
54	62432	95 <b>76</b> 3	66669	33331	04237	37568	6
55	62459	95757	66702	33298	04243	37541	.5 4
56	<b>62</b> 486	95751	66735	33265	04249.	37514	4
57	<b>62</b> 513	95745	66768	33232	04255	37487	3
58	62541	95739	66801	33199	04261	37459	2
59 60	62568 62595	95733	66834 66867	33166	04267 04272	37432 37405	o
<u>~</u>		95728		33133			M.
	Co-sine.	Sine.	Co-tang.	1 angent.	Co-secant	Secant.	141.

Ī	M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
	. 0*	9.62595	9.95728	9.66867	10.33133	10.04272	10.37405	60
I	ĭ	62622	95722	66900	33100	04278	37378	59
ł	2	62649	<b>9</b> 5716	66933	33067	04284	37351	58
ı	3	62676	95710	66966	33034	04290	37324	57
ı	4	62703	95704	66999	33001	04296	37297	56
I	5	62730	95698	67032	32968	<b>943</b> 02	37270	55
1	, 6	62757	95692	67065	32935	04308	37243	54
1	7	62784	95686	67098	32902	04314	37216	53
П	8,	62811	95680	67131	32869	04320	37189	52
ı	9	62838	95674	67163	32837	04326	37162	51
H	10	9.62865	9.95668	9.67196	.10.32804	10.04332	10.37135	50
H	, 11	62892	95663	67229	32771	04337	37108	49
H	12	62918	95657	67262	32738 32705	04343 04349	37082 37055	48
ı	13 14	62945 * 62972	95651 95645	67295 67 <b>5</b> 27	32673	04349	37028	46
H	15	62999	95639	67360	32640	04361	37001	45
1	16	63026	95633	67393	32607	04367	36974	44
П	17	63052	95627	67426	32574	04373	36948.	
ı	18	63079	95621	67458		04379	36921	42
1	19	63106	95615	67491	32509	04385	36894	41
	20	9.63133	9.95609	9.67524	10.32476	10.04391	10.36867	40
I	21	63159	95603	67556	32444	04397	36841	39.
1	22	63186	95597	67589	32411	04403	36814	38
H	23	63213	95591	67622	32378	04409	36787	37
I	24	63239	95585	67654	32346	04415	36761	36
H	25	<b>*63266</b>	95579	67687	32313	04421	36734	35
ı	26	63292	95573	67719	32281	04427	36708	34
H	27	63319	95567	67752	32248	04433	36681	33
I	28	63345	95561	67785	32215	04439	36655	32
ı	29	63372	95555	67817	32183	04445	36628	31
ı	30	9.63398	9.95549	9.67850	10.32150	10.04451	10.36602	30
H	31	63425	95543	67882	32118	04457	36575	29
H	32 33	63451	95537 95531	67915 67947	32085 32053	04463 04469	36549	28
I	34	63478 63504	95525	67980	32020	04409	36522 36496	26
ı	35	63531	95519	68012	31988	04481	36469	25
1	36	. 63557	95513	68044	31956	04487	36443	24
ı	37	63583	95507	68077	1923	04493	36417	23
ı	38	63610	95500	. 68109	31891	04500	36390	22
H	39	63636	95494	68142	31858	04506	36364	21
1	40	9.63662	9.95488	9.68174	10.31826	10.04512	10.30338	20
ı	41	63689	95482	68206	31794	04618	36311	19
ı	42	63715	95476	68239	31761	04524	36285	18
I	43	63741	95470	68271	31729	04530	36259	17
1	44	63767	95464	68303	31697	. 04536	36233	16
1	45	63794	95458	68336	31664	04542	36206	15
ı	46	63820	95452	68368	31632	04548	36180	14
	47	63846	95446	68400	31600	04554	36154	13
	48 49	63872	95440	68432 68465	31568	04560	36128	12
1		63898	95434		31535	04566	36102	11
ı	50	9.63924	9.95427	9.68497	10.31503	10.04573	10.36076	10
I	51 52	63950 63976	95421	68529	31471	04579	. 36050	· 9
1	1	64002	95415	68561 68503	31439	04585	36024 35998	انسا
ı	53 54	64028	95409 95403	68593 686 <b>26</b>	31407 31374	04591 04597	35972	6
H	55	64054	95397	68658	31342	04603	35946	5
1	56	64080	95391	68690	31310	04609	35920	4
	57	64106	95384	. 68722	31278	04616	35894	3
H	58	€4132	95378	68754	31246	04622	35868	2
ı	59	<b>64</b> 158.	95372	68786	31214	04628	35842	1
	60	64184	95366	68818	31182	04634	35816	0
ı		Co-sine.	Sine.	Co-tanga		Co-secant		M.
£	_							

## Artificial Sans, Tang. and Sec. 26 Degrees.

F	М.	Sine.	Co-sine.	Tengent.	Co-tang.	Secant.	Co-secant	
H	0	9.64184	9.95366	9.68818	10.31182	10.04634	10.35816	80
	i	64210	95360	68850	31150	04640	35790	59
ı	2	64236	95354	68882	31118	04646	* 35764	58
l	3	64262	• 95348	68914	31086	04652	35738	57
H	4	64288	95341	68946	31054	04659	35712	56
H	5 6	<b>64</b> 313 <b>64339</b>	95335 95329	68978 69010	31022 30990	04665 04671	35687 356 <del>0</del> 1	55 54
Ħ	7	64365	95323	69042	30958	04677	35635	53
Ħ	8	<b>64391</b>	95317	69074	30926	04683	. 35609	52
H	9	64417	95310	69106	30894	04690	35583	51
r	10	9.64442	●.95304	9.69138	10.30862	10.04696	10.35558	50
H	11	64468	95298	69170	30830	04702	35532	49
	12	64494	95292	69202	'30798	04708	35506	48
H	13	64519	95286	69234	₩30766	04/14	35481	47
H	14 15	<b>64545</b> <b>6457</b> 1	95279 95273	69266	30734	04721	35455	46
1	16	64596	• 95267	69298 69329	30702° 30671	04727 04733	35429 35404	44
H	17	64622	95261	69361	30639	04739	25378	43
Į.	18	64647	95254	69393	30607	04746	35353	42
	19	64673	95248	69425	30575	04752	35327	41
	20	9.64698	9.95242	9.69457	10.30543	10.04758	10.35302	40
	<b>2</b> 1	64724	95236	69488	, 30512	04764	35276	39
	22	64749	95229	69520	30480	04771	35251	38
-	23	64775	95223	69552	30 48	04777	35225	37
	24 25	64800 64826	95217 95211	69584 69615	30416 30385	04783 04789	35200 35174	36 35
	26	64851	95204	69647	30353	04796	35149	34
	27	• 64877	95198	69679	30321	04802	35123	33
<b>=</b> 1	28	64902	95192	69710	30290	04808	35098	32
	29	64927	-95185	69742	<b>30</b> 258	04815	35073	31
	30	9.64953	9.95179	9.69774	10.30226	10.04821	10.35047	30
	31	64978	95173	69805	30195	04827	35022	29
	32	65003	95167	69837	30163	04833	34997	28
	33	65029	95160	69868	30132	04840	34971	27
	34 35	65054 65079	95154 95148	69900 69932	30100 30068	04846 04852	34946 34921	26 25
	36	65104	95141	6 <b>29</b> 63	30037	04859	34896	24
-	37	65130	95135	69995	30005	04865	34870	23
	38	65155	95129	70026	29974	04871	34845	22
	39	65180	95122	70058	29942	04878	34829	21
<b>E</b> 1	40	9 5205	9.95116	9.70089	10.29911	10.04884	10.34795	20
	41	65230	95110	70121	29879	04890	34770	19
	42	65255	95103	70152	29848	04897	34745	18
#1	43 44	65281 65306	95097 950 <b>90</b>	• 70184	29816 29785	04903	34719	17 16
	45	<b>653</b> 31	95084	70215 70247	29753	04910 04916	34694 34669	15
	46	65356	95078	70278	29722	04922	34644	14
	47	65381	95071	70309	29691	04929	34619	13
	48	65406	95065	70341	<b>29659</b>	04935	34594	12
	49	65431	95059	70372	29628	• 04941	34569	11
ı	50	9.65456	9.95052	9.70404	10.29596	10.04948	10.34544	10
	51	65481	95046	70435	29565	04954	34519	9
	52 53	65506	95039	70466	29534	04961	34494	8
ŀ	54	65531 65556	95033 95027	70498 705 <b>29</b>	29502 29471	04967 04973	34469 34444	6
1	55	65580	95020	70560	29440	04980	34420	5
	56	65605	95014	70592	29408	04986	34395	5 4
	57	65630	95007	70623	29377	04993	34370	3
	58	65655	95001	70654	29346	04999	34345	2
n	59	65680	94995	70685	29315	05005	* 34320	
L	60	65705	• 94988	70717	29283	05012,	34295	0
L		Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

				· ·			
M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.65705	9.94988	9.70717	10.29283	10.05012	10.34295	60
1	65729	94982	70748	29252	05018	34271	59
2	65754	94975	70779	29221	<b>405025</b>	34246	58
3	65779	94969	70810	29190	05031	34221	57
5	65804 65828	94962 94956	70841 70873	29159 29127	05038 05044	34196 34172	56 55
6	65853	94949	70904	29096	05051	34147	54
7	65878	94943	70935	29065	05057	34122	53
8	65902	94936	70966	29034	05064	34098	52
9	65927	94930	70997	29003	05070	<b>634073</b>	.51
10	9.65952	9.94923	9.71028	10.28972	10.05077	10.34048	50
11	65976	94917	71059	28941	05083	34024	49
12	66001	94911	71090	28910	05089	33999	48
13	66025	94904	71121	28879	• 05096	33975	47
14	66050 66075	94898 94891	71153	28847	05102	33950 33925	46
16	66099	94885	71184 71215	28816 28785	05109 05115	33925	45 44
17	66124	94878	71246	28754	05122	33876	43
18	66148	94871	71277	28723	05129	33852	42
19	66173	94865	71308	28692	05135	33827	41
20	9.66197	9.94858	9.71339	10.28661	10.05142	10.33803	40
21	• 66221	94852	71370	28630	05148	33779	39
22	66246	94845	71401	28599	05155	33754	38
23	66270	94839	71431	28569	05161	33730	37
24 25	66295 66319	94832	71462 71493	28538	05168	33705	36
26	66343	94826 94819	71524	28507 28476	05174 05181	33681 33657	35 34
	66368	94813	71555	28445	05187	33632	33
27 28	66392	94806	71586	28414	05194	33608	32
29	66416	94799	71617	28383	05201	33584	31
30	9.66441	-9.94793	9.71648	10.28352	10.05207	10.33559	30
31	66465	94786	71679	28321	05214	33535	29
32	66489	94780	71709	28291	05220	33511	28
23	66513	94773	. 71740	28260	05227	33487	27
34 35	66537 66562	94767 94760	71771	28229	05233	33463	26
36	66586	94753	71802 71833	28198 28167	05240 05247	33438 33414	25 24
37	66610	94747	71863	28137	05253	33390	23
38	66634	94740	71894	28106	05260	33366	22
39	66658	94734	71925	28075	05266	33342	21
40	9.66682	9.94727	9.71955	10:28045	10.05273	10.33318	20
41	66706	94720	71986	28014	05280	33294	19
42	68731	94714	72017	27983	05286	33269	18
43 44	66770	94707	72048	27952	05293	33245	17
44	66779 66803	94700 • 94694	<b>72078</b>	27922	05300 05306	33221	16 15
46	66827	94687	72109	27891 27860	05306	36197 33173	14
47	66851	94680	72170	27830	05320	33149	13
48	66875	94674	72201	27799	05326	33125	12
49	66899	94667	72231	27769	05333	33101	11
50	9.66922	9.94660	9.72262	10.27738	10.05340	10.33078	10
51	66946	94654	72293	27707	05346	33054	9
52	66970	94647	72323	27677	<b>4</b> 05353	33030	8
53	66994	94640	72354	27646	05360	33006	7
54 ° 55	67018 67042	94634 94627	72384	27616	05366	32982	6
56	67066	94627	72415 72445	27585 27556	05373	32958 32934	,5 4
57	67090	94614	72476	27524	05386	32934 32910	3
58	67113	94607	72506	27494	05393	32887	2
59	67137	94600	72537	27463	05400	32863	1
60	67161	94593	72567	27433	05407	32839	0
·	Co-sine.	Şine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

# 136 Artificial Sines, Tang. and Sec. 28 Degrees.

1	1 0:	l C. sina	1 /D	I Co Assess	I Carant	· C	
M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	i
0	9.67161 67185	9.94593 94587	9.72567 72598	10.27433 27402	10.05407 05413	10.32839 32815	60 59
2	67208	94580	72628	27372	05420	32792	58
3	67232	94573	72659	27341	05427	32768	
4	67256	94567	72689	27311	05433	32744	56
5	67280	94560	72720	27280	05440	32720	55
6	67303	94553	72750	27250	05447	32697	54
7	67327	94546	72780	27220	05454	32673	53
8 9	67350 67474	. 94540 94533	72811 72841	27189 27159	05460 05467	32650 32626	52 51
							-
10 11	9.67398	9.94526 94519	9,72872	10.27128 27098	10.05474 05481	10.32602 32579	50 49
12	67445	94513	72932	27068	05487	32555	48
13	67468	94606	72963	27037	05494	32532	47
14	67492	94499	72993	27007	. 05501	32508	46
15	67515	94492	73023	26977	05508	32485	450
16	67539	94485	73054	26946	05515	32461	44
17	67562	94479	73084	26916	05521	32438	43
18 19	67586	94472	73114	26886	05528	32414	42
	67609	94465	73144	26856	05535	32391	41
20 21	9.67633	9.94458	9.73175	10.26825	10.05542	10.32367 32348	40 39
21	67656 67680	94451 94445	73205 73235	26795 26765	05549	3234 <del>4</del> 32320	38
23	67703	94438	73265	26735	05562	32297	37
24	67726	94431	73295	26705	05569	32274	36
25	67750	94424	73326	26674	05576	32250	35
26	67773	94417	73356	26644	05583	32227	34
27	67796	94410	73386	26614	05590	32204	
28	67820	94404	73416	. 26584	05596,	32180	32
29	67843	94397	73446	26554	05603	32157	31
30	9.67866	9.94390	9.73476	10.26524	10.05610	10.32134	30
31 32	67890	9438 <b>3</b> * 94376	73507	26493 26463	05617	32110 32087	29
33	67936	94369	73537 73567	26433	05624 05631	32064	29
34	67959	94362	73597	26403	05638	32041	26
35	67982	94355	73627	26373	05645	32018	25
36	68006	94349	73657	26343	05651,	31994	24
37	68029	94342	73687	26313	05658	31971	23
.38	68052	94335	73717	26283	05665	31948	22
39	68075	94328	73747	26253	05672	. 31925	21
40	9.68098	9.94321	9.73777	10.26223	10.05679	10.31902	20
41 42	68121 68144	. 94314 94307	73807 73837	26193 26163	05686 05693	31879 21856	19 18
43	68167	94307	73837 73867	26163 26123	05093	\$1833	17
44	68190	94293	73897	26.3	05707	31810	16
45	68213	94286	73927	26073	05714	31787	15
46	68237	94279	73957	26043	05721	31763	14
47	68260	94273	73987	26013	05727	31740	13
48	68283	94266	74017	25983	05734	• 31717	12
49	68305	94259	74047	25953	05741	31695	11
50	9.68328	9.94252	9.74077	10.25923	10.05748	10.31672	10
51 52	68351 68374	94245	74107	25893	05755	31649	9
52 53	68397	94 <b>2</b> 38 94231	74137 74166	25863 25834	05762 05769	31626 31603	7
54	-68420	94224	74196	25804 25804	05776	31580	6
55	68443	94217	74226	25774	05783	31557	5
56	68466	94210	74256	25744	05790	31534	4
57	68489	94203	74286	25714	05797	31511	3
58	68512	94196	74316	25684	. 05804	31488	2
59	68534	94189	74345	25655	05811	31466	.1
60	68557	94182	74375	25625	05818	31443	0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	М.

	M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
1         68580         94175         74405         25695         05825         31420         59           2         686825         94161         74465         25555         05832         31375         57           4         68648         94164         74494         25506         05846         31352         57           5         68671         94147         74524         25476         05863         31329         55           6         68684         94140         74524         25476         05863         31329         55           7         66716         94132         74613         25387         05874         31261         52           8         68739         94126         74613         25387         05874         31281         53           10         9.68762         94119         74643         25357         05881         31238         51           11         68807         94098         74702         25288         05995         31171         48           12         68829         94098         74722         25288         05900         31148         47            14         68875         94065								60
3							31420	
4         68648         94154         74494         25506         05846         31352         56           6         68894         94140         74554         25476         05863         31392         55           7         66716         34133         74583         25417         05867         31284         53           8         68739         34192         74613         25387         05874         31841         53           10         9.88784         9.94112         74643         25387         05881         31238         51           11         68807         34105         74702         25288         05902         31171         48           12         68829         34008         74762         25238         05910         31148         47           14         68875         94083         74791         25209         05917         31125         46           16         68920         94069         74821         25179         05924         31103         49           17         68942         94062         74890         25120         05933         31068         43           18         68965         94055								
5         66671         94147         74524         25476         05883         31329         55           6         68694         94140         74554         25446         05880         31329         55           7         68716         94130         74533         22417         05887         31224         53           8         68739         34126         74613         25387         05874         31284         53           10         9.68762         94119         74633         25357         05881         31233         51           11         68807         94112         9.74673         10.25327         10.05888         10.31216         50           12         68829         94098         74732         25288         05902         31171         48           13         68852         94090         74762         25238         05910         31148         47           14         68875         94076         74821         25179         05924         31103         45           15         68897         94069         7481         25179         05934         31035         42           18         69920         94								
6         68694 or 94140         74554 or 9417 or 94587         25446 or 9587 or 9418 or 9418 or 94818 or								
7         68736         94136         74613         25387         05874         31281         52           9         68762         94119         74643         25387         05874         31281         52           10         9.68784         9.94112         9.74673         10.25387         10.05883         10.31216         50           11         68807         94105         74702         25288         05895         31193         49           12         68829         94090         74762         25288         05910         31148         47           13         68852         94090         74762         25283         05910         31148         47           15         68897         94076         74821         25179         05924         31103         45           16         68920         94062         74880         25120         05931         31008         44           17         68942         94062         74880         25120         05933         31058         43           18         68965         94055         74910         25090         05945         31035         42           20         9.69010								
8         68739         94126         74613         22387         05874         31281         52           10         9.68764         94119         74643         25357         05881         31236         51           10         9.68764         9.94112         9.74673         10.25327         10.05888         10.31216         51           11         68807         94098         74702         25288         05895         31193         49           12         68829         94090         74762         25288         05902         31171         48           15         68857         94083         74791         25209         05917         31123         46           16         68920         94069         74881         25149         05931         31080         44           17         68942         94062         74880         25120         05938         31038         43           18         68965         94055         74910         25090         05945         31035         42           20         9.69010         9.94041         9.74969         10.25031         10.06959         107.3090         40           21         69								
9								
11         68807         94105         74702         25298         05895         31193         49           12         68829         94098         74762         25288         05902         31171         48           13         68852         94090         74762         25283         05910         31141         48           15         68897         94076         74821         25179         05924         31103         45           16         68920         94062         74831         25120         05933         31058         44           17         68942         94062         74830         25120         05933         31058         43           18         68965         94055         74910         25090         05945         31035         42           20         9.69010         9.94041         9.74989         25002         05968         30968         39           21         69032         94027         75028         24972         05973         30945         38           22         69055         94027         75087         24913         05983         30900         36           24         6910         94012								
11         66807         94105         74702         25298         05895         31193         49           13         66852         94090         74762         25288         05902         31171         48           14         68875         94080         74761         25299         05917         31125         46           15         68897         94076         74821         25190         05917         31125         46           16         68920         94062         74881         25149         05931         31000         44           17         68942         94055         74910         25090         05913         31036         43           18         68987         94048         74939         25061         05952         31013         41           20         9.69010         9.94044         74998         25002         06965         30968         39           21         69055         94027         75028         24972         06973         30945         38           22         69055         94027         75028         24972         06973         30945         39           25         69122         94005<	10	9.68784	9.94112	9.74673	10.25327	10.05888	10.31216	50
13         68852         94090         74762         22238         05910         31148         47           15         68897         94076         74781         25209         05917         31125         46           16         68920         94069         74851         25149         05931         31080         44           17         68942         94062         74890         25120         05938         31058         43           19         68967         94048         74939         25061         05952         31013         41           20         9.69010         9.94041         9.74969         10.25031         10.05952         31013         41           21         69032         94034         74998         25002         05966         30968         30           22         69055         94027         75028         24972         05973         30045         38           23         69077         94020         75087         24913         05980         30923         36           24         69100         94012         75087         24913         05983         30678         36           25         69122 <t< th=""><th></th><th></th><th></th><th></th><th></th><th>05895</th><th></th><th></th></t<>						05895		
14         68875         94083         74791         25209         05917         31125         46           15         688920         94069         74821         25179         05924         31103         44           17         68942         94062         74880         25120         05938         31058         43           18         68965         94055         74910         25090         05945         31033         42           19         68987         94048         74939         25061         05952         31013         42           20         9.69010         9.94041         9.74969         10.25031         10.06959         10'.30990         40           21         69032         94034         74998         25002         05966         30968         39           22         69055         94027         75028         24972         05993         30963         39           23         69077         94020         75058         24972         05983         30900         36           25         69122         94005         75117         24834         06002         30865         34           27         69167								
15         68897         94076         74821         25179         05924         31103         45           16         68920         94069         74851         25149         05931         31080         44           17         68942         94062         74830         25120         05938         31058         43           18         68965         94045         74930         25061         05932         31013         41           20         9.69010         9.94041         9.74969         10.25031         10.06959         10'.30900         39           21         69032         94034         74998         25002         05966         30968         39           22         69055         94027         75028         24972         05973         30945         38           23         69077         94020         75087         24913         05983         30900         36           25         69122         94005         75117         24824         06009         30833         33           26         69144         93998         75166         24854         06009         30833         33           27         69169								
16         68942         94069         74851         25149         05931         31060         44           18         68965         94062         74880         25120         05938         31058         42           19         68967         94048         74939         25061         0.5952         31013         41           20         9.69010         9.94041         9.74969         10.25031         10.05952         31013         41           21         69032         94034         74988         25002         05966         3968         39           22         69055         94027         75028         24972         05973         30945         38           23         69077         94020         75058         24942         05980         309023         37           24         69100         94012         75087         24913         05988         30900         36           25         69122         94005         75117         24883         05995         30878         35           26         69144         93998         75146         24954         06009         30833         33           27         69167         <						05917		
17         68942         94062         74880         25120         05938         31058         43           18         68965         94055         74910         25090         05945         31035         41           20         9.69010         9.94041         9.74969         10.25031         10.05959         10'.30990         40           21         69032         94034         74998         25002         05966         30968         39           22         69055         94027         75028         24972         05973         30945         38           23         69077         94020         75058         24942         05980         30923         37           24         69100         94012         75087         24913         05988         30900         36           25         69122         94005         75117         24883         06902         30666         34           27         69167         93991         75176         24924         06002         30636         34           28         69189         93984         75295         24765         06023         30788         35           29         69212								
18         68965         94055         74910         25090         05945         31035         42           20         9.69010         9.94041         9.74969         10.25031         10.05952         31013         41           20         9.69010         9.94041         9.74969         10.25031         10.05952         30968         39           21         69032         94034         74998         25002         05966         30968         39           22         69055         94027         75088         24972         05973         30945         38           24         69100         94012         75087         24913         05988         30900         36           25         69122         94006         75117         24883         05995         30878         35           26         69144         93998         75146         24954         06002         30833         33           28         69189         93977         75235         24795         06016         30811         32           29         69212         93977         75235         24677         06023         30788         31           31         6926								
19								
20         9.69010         9.94041         9.74969         10.25031         10.05959         10.30990         40           21         69032         94034         74998         25002         05966         30968         39           22         69055         94027         75028         24972         05973         30945         38           23         69077         94020         75058         24942         05988         30900         36           24         69100         94012         75087         24913         05988         30900         36           26         69144         93998         75146         24854         06002         30686         34           27         69167         93991         75176         24924         06009         30833         33           29         69212         93977         75235         24795         06016         30611         32           29         69212         93977         75235         24677         06052         30788         31           30         9.69234         9.93970         7.75235         24677         06045         30721         28           31         69256								
21         69032         94034         74998         25002         05966         30968         39           22         69055         94027         75028         24972         05973         30945         38           23         69077         94020         75058         24942         05980         30943         37           24         69100         94012         75087         24913         05988         30900         36           25         69122         94005         75117         24883         05995         30878         35           26         69144         93998         75176         24824         06002         30856         34           27         69167         93991         75176         24824         06009         30333         33           30         9.69214         9.93970         9.75264         10.24736         10.06030         10.30768         32           31         69256         93963         755294         24706         06037         30744         29           32         69279         93948         75532         24677         06045         30721         28           33         69301								
23         69077         94020         75058         24942         05980         30923         37           24         69100         94012         75087         24913         05988         30900         36           25         69122         94005         75117         24883         05995         30878         35           26         69144         93998         75146         24854         06002         30856         34           27         69167         93991         75176         24824         06009         30833         33           28         69189         93984         75205         24795         06016         30611         32           29         69212         93977         75235         24765         06023         30788         31           30         9.69234         9.93955         75323         24677         06045         30721         28           31         69256         93963         755294         24706         06037         30744         29           32         69279         93955         75323         24677         06045         30721         24           33         69321         93941	21	69032	94034					
24         69100         94012         75087         24913         05988         30900         36           25         69122         94005         75117         24883         05995         30878         35           26         69144         93998         75176         24824         06002         30856         34           27         69167         93991         75176         24824         06009         30833         33           28         69189         93984         75205         24765         06016         30611         32           29         69212         93970         9.75284         10.24736         10.06030         10.30766         30           31         69256         93963         75232         24706         06037         30744         29           32         69279         93955         75323         24677         06045         30721         28           33         69301         93948         75352         24618         06052         30699         27           34         69323         93941         75382         24618         06052         30699         27           36         69345 <th< th=""><th>22</th><th>69055</th><th>94027</th><th>75028</th><th>24972</th><th>05973</th><th>30945</th><th></th></th<>	22	69055	94027	75028	24972	05973	30945	
25         69122         94005         75117         24883         05995         30678         35           26         69144         93998         75146         24854         06002         30656         34           27         69167         93991         75176         24824         06009         30833         33           28         69189         93984         75205         24795         06016         30811         32           29         69212         93970         9.75264         10.24736         10.06030         10.30766         30           31         69256         93963         75294         24706         06037         30744         29           32         69279         93955         75323         24677         06045         30721         28           33         69301         93948         75353         24647         06052         30672         24           34         69323         93941         75382         24618         06059         30677         26           35         69345         93934         75411         24589         06066         30652         25           36         69368 <th< th=""><th></th><th></th><th></th><th></th><th>24942</th><th>05980</th><th>30923</th><th></th></th<>					24942	05980	30923	
26         69144         93998         75146         24854         06002         30656         34           27         69167         93991         75176         24824         06009         30833         33           28         69189         93984         75205         24795         06016         30811         32           29         69212         93977         75235         24765         06023         30788         31           30         9.69234         9.93970         9.75264         10.24736         10.06030         10.30766         30           31         69256         93963         75294         24706         06037         30744         29           32         69279         93955         75323         24677         06045         30721         28           33         69301         93948         75353         24617         06052         30699         27           34         69323         93941         75382         24618         06059         30677         26           35         69345         93934         75411         24589         06066         30655         25           36         69345								
27         69167         93391         75176         24824         06009         30833         33           28         69189         93984         75205         24795         06016         30811         32           30         9.69234         9.93977         75235         24706         06037         30744         29           31         69256         93963         75294         24706         06037         30744         29           32         69279         93955         75323         24677         06045         30721         28           34         69323         93941         75382         24618         06052         30699         27           35         69345         93394         75411         24589         06066         30655         25           36         69368         93927         75411         24589         06066         30655         25           36         69368         93927         75441         24559         06073         30632         24           37         69390         93920         75470         24530         06080         30610         23           38         69412         9391 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
28         69189         93984         75205         24795         06016         30811         32           29         69212         93977         75235         24765         06023         30788         31           30         9.69234         9.93970         9.75264         10.24736         10.06030         10.30766         30           31         69256         93965         75282         24677         06045         30721         28           32         69279         93948         75353         24647         06052         30699         27           34         69323         93941         75382         24618         06059         30677         26           36         69345         93934         75411         24589         06066         30655         25           36         69368         93927         75441         24559         06073         30632         24           37         69390         93920         75470         24530         06080         30610         23           38         69412         93912         75500         24500         06088         30588         22           40         9.69456								
29         69212         93977         75235         24765         06023         30788         31           30         9.69234         9.93970         9.75264         10.24736         10.06030         10.30766         30           31         69256         93963         75294         24706         06037         30744         29           32         69279         93955         75323         24677         06045         30721         28           33         69301         93941         75382         24618         06059         30677         26           34         69323         93941         75382         24618         06059         30677         26           36         69368         93927         75411         24589         06066         30655         25           36         69368         93927         75441         24559         06073         30632         24           37         69390         93920         75470         24530         06088         30588         22           39         69434         93905         75529         24471         06095         30566         21           40         9.69456								
30         9.69234         9.93970         9.75284         10.24736         10.06030         10.30766         30           31         69256         93963         75294         24706         06037         30744         29           32         69279         93955         75323         24677         06045         30721         28           33         69301         93948         75353         24647         06052         30699         27           34         69323         93941         75382         24618         06059         30677         26           36         69368         93927         75411         24589         06066         30655         25           36         69368         93927         75411         24589         06068         30632         24           37         69390         93920         75470         24530         06080         30610         23           38         69412         93912         75500         24500         06088         30588         22           40         9.69456         9.93898         9.75558         10.2442         10.06102         10.30544         20           41         6947								
31         69256         93963         75294         24706         06037         30744         29           32         69279         93955         75323         24677         06045         30721         28           34         69323         93941         75382         24618         06052         30699         27           35         69345         93934         75411         24589         06066         30655         25           36         69368         93927         75441         24559         06073         30632         24           37         69390         93920         75470         24530         06080         30610         23           38         69412         93912         75500         24500         06088         30588         24           40         9.69456         9.93898         9.75558         10.24442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523								
32         69279         93955         75323         24677         06045         30721         28           33         69301         93948         75353         24647         06052         30699         27           34         69323         93941         75382         24618         06059         30677         26           35         69345         93941         75382         24618         06069         30677         26           36         69368         93927         75411         24559         06073         30632         24           37         69390         93920         75470         24530         06080         30610         23           38         69412         93912         75500         24500         06088         30588         22           40         9.69456         9.93898         9.75558         10.24442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523								
33         69301         93948         75353         24647         06052         30699         27           34         69323         93941         75382         24618         06059         30677         26           35         69345         93934         75411         24589         06066         30655         25           36         69368         93927         75441         24559         06073         30632         24           37         69390         93920         75470         24530         06080         30610         23           38         69412         93912         75500         24500         06088         30588         22           40         9.69456         9.93898         75558         10.2442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523         93876         75647         24353         06124         30477         17           44         69545 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								
34         69323         93941         75382         24618         06059         30677         26           35         69345         93934         75411         24589         06066         30655         25           36         69368         93927         75411         24589         06073         30632         24           37         69390         93920         75470         24530         06080         30610         23           38         69412         93912         75500         24500         06088         30588         22           40         9.69456         9.93898         9.75558         10.24442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523         93876         75647         24353         06124         30477         17           44         69545         93869         75676         24324         06131         30433         15           46         69559								
35         69345         93934         75411         24589         06066         30655         25           36         69368         93927         75441         24559         06073         30632         24           37         69390         93920         75470         24530         06080         30610         23           38         69412         93912         75500         24500         06088         30588         22           39         69434         93905         75529         24471         06095         30566         21           40         9.69456         9.93898         9.75558         10.24442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523         93876         75647         24353         06124         30477         77           44         69545         93869         75676         24324         06133         30433         15           45         69567								
37         69390         93920         75470         24530         06080         30610         23           38         69412         93912         75500         24500         06088         30588         22           40         9.69456         9.93898         9.75558         10.24442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523         93876         75647         24383         06116         30499         18           45         69567         93862         75676         24324         06131         30455         16           46         69589         93855         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69633         93840         75793         24207         06160         30367         12           50         9.69677	35	69345	93934	75411	24589	06066		25
38         69412         93912         75500         24500         06088         30588         22           39         69434         93905         75529         24471         06095         30566         21           40         9.69456         9.93898         9.75558         10.24442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523         93876         75647         24353         06124         30477         17           44         69545         93869         75676         24324         06131         30433         15           46         69589         93855         75735         24265         06145         30431         14           47         69611         93847         75764         24236         06153         30389         13           49         69655         93833         75822         24178         06160         30367         12           50         9.69677	36	69368	93927	75441	<b>24</b> 559		30632	24
39         69434         93905         75529         24471         06095         30566         21           40         9.69456         9.93898         9.75558         10.24442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523         93869         75676         24353         06124         30477         17           44         69545         93869         75676         24324         06131         30455         16           45         69567         93862         75705         24295         06138         30433         15           46         69589         93855         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69635         93833         75822         24178         06167         30345         11           50         9.69677				75470				
40         9.69456         9.93898         9.75558         10.24442         10.06102         10.30544         20           41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523         93876         75647         24353         06124         30477         17           44         69545         93869         75676         24324         06131         30435         16           45         69567         93862         75705         24295         06138         30433         15           46         69589         93857         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69633         93840         75793         24207         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         696								
41         69479         93891         75588         24412         06109         30521         19           42         69501         93884         75617         24383         06116         30499         18           43         69523         93876         75647         24353         06124         30477         17           44         69545         93869         75676         24324         06131         30455         16           45         69567         93862         75705         24295         06138         30433         15           46         69589         93857         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69635         93833         75822         24178         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         69699         93811         75910         24090         06189         30279         8           52         69721								
42         69501         93884         75617         24383         06116         30499         18           43         69523         93876         75647         24383         06116         30499         18           44         69545         93869         75676         24324         06131         30455         16           45         69567         93862         75705         24295         06138         30433         15           46         69589         93855         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69633         93840         75793         24207         06160         30347         13           49         69655         93833         75822         24178         06160         30345         11           50         9.69677         9.93896         9.75852         10.24148         10.06174         10.30323         10           51         69699         93811         75910         24090         06189         30279         8           52         69721								
43         69523         93876         75647         24353         06124         30477         17           44         69545         93869         75676         24324         06131         30455         16           45         69567         93862         75705         24295         06138         30433         15           46         69589         93855         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69633         93840         75793         24207         06160         30367         12           49         69655         93833         75822         24178         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         69699         93819         75881         24119         06181         30301         9           52         69721         93811         75910         24090         06189         30279         8           53         69743         <								
44         69545         93869         75676         24324         06131         30455         16           45         69567         93862         75705         24295         06138         30433         15           46         69589         93855         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69633         93840         75793         24207         06160         30367         12           49         69655         93833         75822         24178         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         69699         93819         75881         24119         06181         30301         9           52         69721         93811         75939         24090         06189         30279         8           53         69743         93804         75939         24061         06196         30255         6           54         69765 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								
45         69567         93862         75705         24295         06138         30433         15           46         69589         93855         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69633         93840         75793         24207         06160         30367         12           49         69655         93833         75822         24178         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         69699         93819         75881         24119         06181         30301         9           52         69721         93811         75910         24090         06189         30279         8           53         69743         93804         75939         24061         06196         30257         6           54         69765         93797         75969         24031         06203         30235         6           55         69787 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>								
46         69589         93855         75735         24265         06145         30411         14           47         69611         93847         75764         24236         06153         30389         13           48         69633         93840         75793         24207         06160         30367         12           49         69655         93833         75822         24178         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         69699         93819         75881         24119         06181         30301         9           52         69721         93811         75910         24090         06189         30279         8           54         69765         93797         75969         24031         06203         30235         6           55         69787         93789         75998         24002         06211         30213         5           56         69809         93782         76027         23973         06218         30191         4           57         69831								
47         69611         93847         75764         24236         06153         30389         13           48         69633         93840         75793         24207         06160         30367         12           49         69655         93833         75822         24178         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         69699         93819         75881         24119         06181         30301         9           52         69721         93811         75910         24090         06189         30279         8           53         69743         93804         75939         24061         06196         30257         7           54         69765         93797         75969         24031         06203         30235         6           56         69809         93782         76027         23973         06218         30191         4           57         69831         93775         76056         23944         06225         30169         3           58         69853         9								
48         69633         93840         75793         24207         06160         30367         12           49         69655         93833         75822         24178         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         69699         93819         75881         24119         06181         30301         9           52         69721         93811         75910         24090         06189         30279         8           53         69743         93804         75939         24061         06186         30257         7           54         69765         93797         75969         24031         06203         30235         6           55         69787         93789         75998         24002         06211         30213         5           56         69809         93762         76027         23973         06218         30191         4           57         69831         93775         76086         23944         06225         30169         3           58         69853         93								
49         69655         93833         75822         24178         06167         30345         11           50         9.69677         9.93826         9.75852         10.24148         10.06174         10.30323         10           51         69699         93819         75881         24119         06181         30301         9           52         69721         93811         75910         24090         06189         30279         8           53         69743         93804         75939         24061         06196         30257         7           54         69765         93797         75969         24031         06203         30235         6           55         69787         93789         75998         24002         06211         30213         5           56         69809         93782         76027         23973         06218         30191         4           57         69831         93775         76086         23944         06225         30169         3           58         69853         93768         76086         23914         06225         30147         2           59         69875         937								
51         69699         93819         75881         24119         06181         30301         9           52         69721         93811         75910         24090         06189         30279         8           53         69743         93804         75939         24061         06196         30257         7           54         69765         93797         75969         24031         06203         30235         6           55         69787         93789         75998         24002         06211         30213         5           56         69809         93782         76027         23973         06218         30191         4           57         69831         93775         76056         23944         06225         30169         3           58         69853         93768         76086         23914         06232         30147         2           59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0	49	69655	93833			06167		11
52         69721         93811         75910         24090         06189         30279         8           53         69743         93804         75939         24061         06196         30257         7           54         69765         93797         75969         24031         06203         30235         6           55         69787         93789         75998         24002         06211         30213         5           56         69809         93782         76027         23973         06218         30191         4           57         69831         93775         76056         23944         06225         30169         3           58         69853         93768         76086         23914         06232         30147         2           59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0								
53         69743         93804         75939         24061         06196         30257         7           54         69765         93797         75969         24031         06203         30235         6           55         69787         93769         75998         24002         06211         30213         5           56         69809         93782         76027         23973         06218         30191         4           57         69831         93775         76056         23944         06225         30147         2           58         69853         93768         76086         23914         06232         30147         2           59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0								
54         69765         93797         75969         24031         06203         30235         6           55         69787         93789         75998         24002         06211         30213         5           56         69809         93762         76027         23973         06218         30191         4           57         69831         93775         76056         23944         06225         30169         3           58         69853         93768         76086         23914         06232         30147         2           59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0								
55         69787         93789         75998         24002         06211         30213         5           56         69809         93782         76027         23973         06218         30191         4           57         69831         93775         76056         23944         06225         30169         3           58         69853         93768         76086         23914         06232         30147         2           59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0								
56         69809         93782         76027         23973         06218         30191         4           57         69831         93775         76056         23944         06225         30169         3           58         69853         93768         76086         23914         06232         30147         2           59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0								
57         69831         93775         76056         23944         06225         30169         3           58         69853         93768         76086         23914         06232         30147         2           59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0								
58         69853         93768         76086         23914         66232         30147         2           59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0								
59         69875         93760         76115         23885         06240         30125         1           60         69897         93753         76144         23856         06247         30103         0								
60 69897 93753 76144 <b>23</b> 856 06247 <b>30103 0</b>	59	69875	93760		<b>238</b> 85	06240	30125	1
Co-sine.   Sine.   Co-tang.   Tangent.   Co-secant   Secant,   M.	60		93753	76144	<b>23</b> 856	06247		
		Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant,	M.

### 38 Artificial Sines, Tang. and Sec. 30 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.69897	9.93753	9.76144	10.23856	10.06247	10.30103	60
1	69919	93746	76173	23827	06254	30081	59
2	69941	93738	76202	23798	06262	30059	58
3	69963	93731	<b>7623</b> 1	23769	06269	30037	57
4	69984	93724	76261	23739	06276	30016	56
5	70006	93717	76290	23710	06283	29994	55
6 7	70028 70050	93709 93702	76319 76348	23681 23652	06291 06298	29972 29950	54 53
8	70072	93695	76377	23623	06305	29928	52
9	70093	93687	76406	23594	06313	29907	51
10	9.70115	9.93680	9.76435	10.23565	10.06320	10.29885	50
ii	70137	93673	76464	23536	06327	29863	49
12	70159	93665	76493	· 23507	06335	29841	48
13	70180	93658	76522	23478	06342	29820	47
14	70202	93650	76551	23449	06350	29798	46
15	70224	93643	76580	23420	06357	29776	45
16 17	70245 70267	93636 93628	76609 76639	23391 23361	06364 06372	29755 29733	44
18	70288	93628 93621	76668	23332	06372	29733	43
19	70310	93614	76697	23303	06386	29690	41
20	9.70332	9.93606	9.76725	10.23275	10.06394	10.29668	40
21	70353	93599	76754	23246	06401	29647	39
22	70375	93591	76783	23217	06409	29625	38
23	70396	93584	76812	<b>2</b> 3188	06416	29604	37
24	70418	93577	76841	23159	06423	29582	36
25	70439 70461	93569	76870	28130	06431	29561	35
26 27	70482	93562 93554	76899 76928	23101 23072	06438 06446	29539 29518	34 33
28	70504	93547	76957	23043	06453	29496	32
29	70525	9 <b>3</b> 539	76986	23014	06461	29475	31
30	9.70547	9.93532	9.77015	10.22985	10.06468	10.29453	30
31	70568	93525	77044	22956	06475	29432	29
32	70590	93517	77073	22927	06483	29410	28
33	70611	93510	77101	22899	06490	29389	27
34	70633	93502	77130	22870	06498	29367	26
35 36	70654 70675	93495 93487	77159 77188	22841 22812	06505 06513	29346	25 24
37	70697	93480	77217	22783	06520	29325 29303	23
38	70718	93472	77246	22754	06528	29282	22
39	70739	93465	77274	22726	06535	29261	21
40	9.70761	9.93457	9.77303	10.22697	10.06543	10.29239	20
41	70782	93450	77332	22668	06550	29218	19
42	70803	93442	77361	22639	06558	29197	18
43	70824	93435	77390	22610	06565	29176	17
44 45	70846 70867	93427 9342 <del>9</del>	77418	22582	06573	29154	16
46	70888	9342 <del>0</del> 93412	77447 77476	22553 22524	06580 06588	29133 29112	15 14
47	70909	93405	77505	22495	06595	29091	13
48	70931	93397	77533	22467	06603	29069	12
49	70952	93390	77562	22438	06610	29048	11
50	9.70973	9.93382	9.77591	10.2240	10.06618	10.29027	10
51	70994	93375	77619	22381	06625	29006	9
52	71015	93367	77648	22352	06633	28985	8
53	71036	93360	77677	22323.	06640	28964	7
54 55	71058 71079	93352 93344	77706	22294	06648	28942	6 5
56	71100	93344 93 <b>3</b> 37	77734 77763	22266 22237	06656 06663	28921 28900	4
57	71121	93329	77791	22209	06671	28879	3
58	71142	93322	77820	22180	06678	28858	2
59	71163	93314	77849	22151	06686	28837	1
60	71184	93307	77877	22123	06693	28816	0
	Co-sine.	Sine.	Co-tang,	Tangent.	Co-secant	Secant.	M.

f	M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
1	0	9.71184	9.93307	9.77877	10.22123	10.06693	10.28816	80
H	1	71205	93299	77906	22094	06701	28795	59
H	2	71226	93291	77935	22065	06709	28774	58
I	3	71247	93284	77963	22037	06716	28753	57
۱	4	71268	93276	77992	22008	06724	28732	56
H	5	71289	93269	78020	21980	06731	28711	55
Ħ	6	71310	93261	78049	21951	06739	28690	54
H	7 8	71331	93253 93246	78077	21923 21894	06747 06754	28669 28648	53 52
H	9	7135 <b>2</b> 71373	93238	78106 78135	21865	06762	28627	51
ı	10	9.71393	9.93230	9.78163	10.21837	10.06770	10.28607	50
H	11	71414	932230	78192	21808	06777	28586	49
ı	12	71435	93215	78220	21780	06785	28565	48
ı	13	71456	93207	78249	21751	06793	28544	47
ı	14	71477	93200	78277	21723	06800	28523	46
I	15	71498	93192	78306	21694	06808	28502	45
I	16	71519	93184	78334	21666	06816	28481	44
ı	17	71539	93177	7836 <b>3</b>	21637	06823	28461	43
H	18	71560	93169	78391	21609	06831	28440	42
Ħ	19	71581	93161	78419	21581	06839	28419	41
П	20	9.71602	9.93154	9.78448	10.21552	10.06846	10.28398	40
I	21	71622	93146	78476	21524	06854	28378	39
H	22	71643	93138	78505	21495	06862	28357	38
I	23	71664	93131	78533	21467	06869	28336	37
H	24	71685	93123	78562	21438	06877	28315	36
I	25	71705	93115	78590	21410	06885	28295	35
H	26 27	71726	93108 93100	78618	21382 21353	06892	28274	34
ı	28	71747 71767	93092	78647 78675	21325	06900 06908	28253 28233	32
ł	29	71788	. 93084	78704	21296	06916	28212	31
H	30	9.71809	9.93077	9.78732	10.21268	10.06923	10.28191	30
H	31	71829	93069	78760	21240	06931	28171	29
I	32	71850	93061	78789	21211	06939	28150	28
H	33	71870	93053	78817	21183	06947	28130	27
I	34	71891	93046	78845	21155	06954	28109	26
H	35	71911	93038	78874	21126	06962	28089	25
H	36	71932	93030	78902	21098	06970	28068	24
H	37	71952	93022	78930	21070	06978	28048	23
I	38	71973	93014	78959	21041	06986	28027	22
I	39	71994	93007	78987	21013	06993	28006	21
I	40	9.72014	9.92999	9.79015	10.20985	10.07001	10.27986	20
H	41	72034	92991	79043	20957	07009	27966	19
H	42	72055	92983	79072	20928	07017	27945	18
ı	43	72075	92976	79100	20900	07024 07032	27925	17 16
1	44 45	72096 72116	92968 92960	79128 79156	20872 20844	07032	27904 27884	15
	46	72116 72137	92950 92952	79156	20844	07048	27863	14
H	47	72157	92932	79213	20787	07056	27843	13
I	48	72177	92936	79241	20759	07064	27823	12
I	49	72198	92929	79269	20731	07071	27802	iī
I	50	9.72218	9.92921	9.79297	10.20703	10.07079	10.27782	10
I	51	72238	92913	79326	20674	07087	27762	9
Ħ	52	72259	92905	79354	20646	07095	27741	8
1	53	72279	92897	79382	20618	07103	27721	7
I	54	72299	92889	79410	20590	07111	27701	6
H	55	72320	92881	79438	20562	07119	27680	5
Į	56	72340	92874	79466	20534	07126	27660	4
H	57	72360	92866	79495	20505	07134	27640	3
H	58	72381	92858	79523	20477	07142	27619	2
H	59	72401	92850	79551	20449	07150	27599	1
۱	60	72421	92842	79579	20421	07158	27579	0
H	- 1	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

### 140 Artificial Sines, Tang. and Sec. 32 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
6	9.72421	9.92842	9.79579	10.20421	10.07158	10.27579	60
ĭ	72441	92834	79607	20393	07166	27559	59
2	72461	92826	79635	20365	07174	27539	58
3	72482	92818	79663	20337	07182	27518	57
<b>4</b> 5	72502 725 <b>2</b> 2	92810 92803	79691 79719	20309 20281	07190 07197	27498 27478	56 55
6	72542	92795	79747	20253	07205	27458	54
7	72562	92787	79776	20224	07213	27438	53
8	72582	92779	79804	20196	07221	27418	52
8	72602	92771	79832	20168	07229	27398	51
10	9.72622	9.92763	9.79860	10.20140	10.07237	10.27378	50
11 12	72643 72663	92755 92747	79888 79916	20112 20084	07245 07253	27357 27337	49
13	72683	92739	79944	20056	07261	27317	47
14	72703	92731	79972	20028	07269	27297	46
15	72723	92723	80000	20000	07277	27277	45
16	72743	92715	80028	19972	07285	27257	44
17	72763	92707	80056	19944	07293 07301	27237 27217	43 42
18 19	72783 72803	92699 92691	80084 80112	19916 19888	07301	27197	41
20	9.72823	9.92683	9.80140	10.19860	10.07317	10.27177	40
21	72843	92675	80168	19832	07325	27157	39
22	72863	92667	80195	19805	07333	27137	38
23	72883	92659	80223	19777	07341	27117	37
24	72902	92651	80251	19749	07349	27098	36
25 26	7292 <del>2</del> 72942	92643 92635	80279	19721	07357	27078 27058	35 34
27	72962	92627	80307 80335	19693 19665	07365 07373	27038 27038	33
28	72982	92619	80363	19637	07381	27018	32
29	73002	92611	80391	19609	07389	26998	31
30	9.73022	9.92603	9.80419	10.19581	10.07397	10.26978	30
31	73041	92595	80447	19553	07405	26959	29
32	73061	92587	80474	19526	07413	26939	28 27
33	73081 73101	92579 92571	80502 80530	19498 19470	07421 07429	26919 26899	26
35	73121	92563	80558	19442	07437	26879	25
36	73140	92555	80586	19414	07445	26860	24
37	73160	92546	80614	19386	07454	26840	23
38	73180	92538	80642	19358	07462	26820	22 21
39	73200	92530	80669	19331	07470	26800	
40 41	9.73219 73239	9.92522 92514	9.80697 80725	10.19303 19275	10.07478 07486	10.26781 26761	20 19
42	73259	92506	80753	19275	07494	26741	18
43	73278	92498	80781	19219	07502	26722	17
44	73298	92490	80808	19192	07510	26702	16
45	73318	92482	80836	19164	07518	26682	15
46	73337	92473	80864	19136	07527	26663	14 13
48	73357 73377	92465 92457	80892 80919	19108 19081	07535 07543	26643 26623	12
49	73396	92449	80947	19053	07551	26604	11
50	9.73416	9.92441	9.80975	10.19025	10.07559	10.26584	10
51	73435	92433	81003	18997	07567	26565	9
52	73455	92425	81030	18970	07575	26545	8
53	73474	92416	81058	18942	07584	26526	7
54 55	73494	92408 92400	81086	18914	07592	26506	6 5
56	73513 73533	92400 92392	81113 81141	18887 18859	07600 07608	26487 26467	4
57	73552	92384	81169	18831	07616	26448	3
58	73572	92376	81196	18804	07624	26428	2
59	73591	92367	81224	18776	07633	<b>\$6409</b>	1
60	73611	92359	81252	18748	07641	26389	0
1	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	М.

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l	М.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
l	0	9.73611	9.92359	9.81252	10.18748	10.07641	10.26389	60
ı	1	73630	92351 92343	81279	18721 18693	07649 07657	26370 26350	59 58
ı	2 3	73650 73669	92335	81307 81335	18665	07665	26331	57
ı	4	73689	92326	81362	18638	07674	26311	56
I	5	73708	92318	81390	18610	07682	26292	55
H	6	73727	92310	81418	18582	07690	26273	54
ı	7	73747	92302	81445	18555	07698	26253	53
H	8	73766	92293	81473	1,8527	07707 07715	26234	52
I	9	73785	92285	81500	18500	10.07723	26215	51 50
Ĭ	10 11	9.73805 73824	9.9 <b>2277</b> 92269	9.81528 81556	10.18472 18444	07731	10.26195 26176	49
H	12	73843	92260	81583	18417	07740	26157	48
ı	13	73863	92252	81611	18389	07748	26137	47
ı	14	73882	92244	81638	18362	07756	26118	46
ł	15	73901	92235	81666	18334	07765	26099	45
I	16	73921	92227	81693	18307	07773	26079	44 43
į	17 18	73940 73959	92219 92211	81721 81748	18279 18252	07781 07789	26060 26041	42
ı	19	73978	92202	81776	18224	07798	26022	41
١	20	9.73997	9.92194	9.81803	10.18197	10.07806	10.26003	40
1	21	74017	92186	81831	18169	07814	25983	39
ŧ	22	74036	92177	81858	18142	07823	25964	38 37
I	23	74055 74074	92169 92161	81886 81913	18114 18087	07831 07839	25945 25926	36
ł	25	74093	92152	81941	18059	07848	25907	35
I	26	74113	92144	81968	18032	07856	25887	34
I	27	74132	92136	81996	18004	07864	25868	33
1	28	74151	92127	82023	17977	07873	25849	32
ı	29	74170	92119	82051	17949	07881	25830	31 30
I	30 31	9.74189 74208	9.92111 92102	9.82078 82106	10.17922 17894	10.07889 07898	10.25811 25792	29
ł	32	74227	92094	82133	17867	07906	25773	28
1	33	74246	92086	82161	17839	07914		27
ı	34	74265	92077	82188	17812	07923		26
ł	35	74284	92069	82215	17785	07931	25716	25
ı	36 37	74303 74322	92060 92052	82243 82270	17757 17730	07940 07948		24
ı	38	74341	92044	82298	17702	07956		22
ł	39	74360	92035	82325	17675	07965	25640	21
ł	40	9.74379	9.92027	9.82352	10.17648	10.07973	10.25621	20
1	41	74398	92018	82380	17620	07982		
1	42	74417	92010	82407	17593	07990		
J	43 44	74436 74455	92002 91993	82435 82462	17565 17538	07998 08007	25564 25545	17
I	45	74474	91985	82489	17511	08015		15
ı	46	74493	91976	82517	17483	08024		14
ł	47	74512	91968	82544	17456	08032	25488	13
ı	48	74531	91959	82571	17429	08041		12
Į	49	74549	91951	82599	17401	08049		10
ı	50 51	9.74568 74587	9.91942 91934	9.82626 82653	10.17374 17347	10.08058 08066		9
1	52	74606	91925	82681	17319	÷08075		8
ı	53	74625	91917	82708	17292	08083	25375	7
1	54	74644	91908	82735	17265	08092		6
ı	55 56	74662 74681	91900 91891	82762 82790	17238 17210	08100 08109		5
1	57	74700	91883	82817	17183	08117		3
1	58	74719	91874	82844	17156	08126	1	2
١	59	74737	91866	82871	17129	08134	25263	1
1	60	74756	91857	82899	17101	08143		0
1		Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

### 142 Artificial Sines, Tang. and Sec. 34 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.74756	9.91857	9.82899	10.17101	10.08143	10.25244	60
1	74775	91849	82926	17074	08151	25225	59
2	74794	91840	82953	17047	08160	25206	58
3	74812	91832	82980 83008	17020 16992	08168 08177	25188 25169	57 56
4 5	74831 74850	918 <b>23</b> 91815	83035	16965	08185	25150	55
6	74868	91806	83062	16938	08194	25132	54
7	74887	91798	83089	16911	08202	25113	53
8	74906	91789	83117	16883	08211	25094	52
9	74924	91781	83144	16856	08219	25076	51
10	9.74943	9.91772	9.83171	10.16829 16802	10.08228 08237	10.25057 25039	50 49
11 12	74961 74980	91763 91755	83198 83225	16775	08245	25039	48
13	74999	91746	83252	16748	08254	25001	47
14	75017	91738	83280	16720	08262	24983	46
15	75036	91729	83307	16693	08271	24964	45
16	75054	91720	83334	16666	08280	24946 24927	44
17 18	75073 75091	91712 91703	83361 83388	16639 16612	08288 08297	24927	42
19	75110	91695	83415	16585	08305	24890	41
20	9.75128	9.91686	9.83442	10.16558	10.08314	10.24872	40
21	75147	91677	83470	16530	08323	24853	39
22	75165	91669	83497	16503	08331	24835	38
23	75184	91660	83524	16476	08340	24816 24798	37 36
24 25	75202 75221	91651 91643	83551 83578	16449 16422	08349 08357	24779	35
26	75239	91634	83605	16395	08366	24761	34
27	75258	91625	83632	16368	08375	24742	33
28	75276	91617	83659	16341	08383	24724	32
29	75294	91608	83686	16314	08392	24706	31
30	9.75313	9.91599	9.83713	10.16287	10.08401	10.24687 24669	30 29
31 32	75331 75350	91591 9158 <b>2</b>	83740 83768	16260 16232	08409 08418	24650	28
33	75368	91573	83795	16205	08427	24632	27
34	75386	91565	83822	16178	08435	24614	26
35	75405	91556	83849	16151	08444	24595	25
36	75423	91547	83876	16124 16097	08453 08462	24577 24559	24 23
37 38	75441 75459	91538 91530	83903 83930	16070	08470	24541	22
39	75478	91521	83957	16043	08479	24522	21
40	9.75496	9.91512	9.83984	10.16016	10.08488	10.24504	20
41	75514	91504	84011	15989	08496	24486	19
42	7553 <b>3</b>	91495	84038	15962	08505	24467	18
43	75551	91486	84065	15935 15908	08514 08523	24449 24431	17
44 45	75569 75587	91477 91469	84092 84119	15881	08531	24413	15
46	75605	91460	84146	15854	08540	24395	14
47	75624	91451	84173	15827	08549	24376	13
48	75642	91442	84200	15800	08558	24358	12
49	75660	91433	84227	15773	08567	24340	10
50	9.75678	9.91425	9.84254 84280	10.15746 15720	10.08575 08584	10.24322 24304	9
51 52	75696 75714	91416 91407	84200	15693	08593	24286	8.
53	75733	91398	84334	15666	08602	24267	7
. 54	75751	91389	84361	15639	08611	24249	6
55	75769	91381	84388	15612	08619	24231	5 4
56	75787	91372	84415	15585	08628 08637	24213 24195	3
57 58	75805 758 <b>2</b> 3	91363 91354	84442 84469	15558 15531	08646	24177	2
59	75841	91345	84496	15504	08655	24159	1
60	75859	91336	84523	15477	08664	24141	0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	1 %

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M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	-
0	9.75859	9.91336	9.84523	10.15477	10.08664	10.24141	60
1	75877	91328	84550	15450	08672	24123	59
2	75895	91319	84576	15424	08681	24105	58
3	75913 75931	91310	84603 84630	15397	08690	24087	57
4 5	75949	91301 91 <b>292</b>	84657	15370 15343	08699 08708	24069	56
6	75967	91283	84684	15316	08717	, <b>24</b> 051 <b>24</b> 033	55 54
7	75985	91274	84711	15289	08726	24015	53
8	76003	91266	84738	15262	08734	23997	52
9	76021	91257	84764	15236	08743	23979	51
10	9.76039	9.91248	9.84791	10.15209	10.08752	10.23961	50
-11	76057	91239	84818	15182	08761	23943	49
12	76075	91230	84845	15155	08770	23925	48
13	76093	91221	84872	15128	08779	23907	47
14 15	76111 76129	91212	84899	15101	08788	23889	46
16	76146	91203 91194	84925 84952	15075 15048	08797 08806	23871 23854	45 44
17	76164	91185	84979	15021	08815	23836	43
18	76182	91176	85006	14994	08824	23818	42
19	76200	91167	85033	14967	08833	23800	41
20	9.76218	9.91158	9.85059	10.14941	10.08842	10.23782	40
21	76236	91149	85086	14914	08851	23764	39
22	76253	91141	85113	14887	08859	23747	38
23	76271	91132	85140	14860	08868	23729	37
24 25	76289	91123	851 <b>66</b>	14834	08877	23711	36
26	76307 76324	91114 91105	85193 85220	14807	08886	23693	35
27	76342	91096	85247	14780 14753	08895	23676	34 33
28	76360	91087	85273	14727	08904 08913	23658 23640	32
29	76378	91078	85300	14700	08922	23622	31
30	9.76395	9.91069	9.85327	10.14673	10.08931	10.23605	30
31	76413	91060	85354	14646	08940	23587	29
32	76431	91051	85380	14620	08949	23569	28
33	76448	91042	85407	14593	08958	23552	27
34	76466	91033	85434	14566	08967	23534	26
35 36	76484 76501	91023	85460	14540	08977	23516	25
37	76519	91014 91005	85487 85514	14513	08986	23499	24
38	76537	90996	85540	14486 14460	08995 09004	23481 23463	23
39	78554	90987	85567	14433	09013	23446	21
40	9.76572	9.90978	9.85594	10.14406	10.09022	10.23428	20
41	76590	90969	85620	14380	09031	23410	19
42	76607	90960	85647	14353	09040	23393	18
43	76625	90951	85674	14326	09049	23375	17
44	76642	90942	85700	14300	09058	23358	16
45	76660	90933	85727	14273	09067	23340	15
46 47	76677 76695	90924	85754	14246	09076	23323	14
48	76712	90915 90906	85780 85807	142 <b>2</b> 0 14193	09085	23305	13
49	76730	90896	85834	14193	09094 09104	23288 23270	12 11
50	9.76747	9.90887	9.85860	10.14140	10.09113		
51	76765	90878	85887	14113	09122	10.23253 23235	10 9
52	76782	90869	85913	14087	09121	23235 23218	8
53	76800	90860	85940	14060	09140	23200	7
54	76817	90851	85967	14033	09149	23183	6
<b>5</b> 5	76835	90842	85993	14007	09158	23165	5
56	76852	90832	86020	13980	09168	23148	4 1
57 58	76870	90823	86046	13954	09177	23130	3 2
59	76887 76904	90814 90805	86073	13927	09186	23113	2
60	76922	90796	86100 861 <b>26</b>	13900 13874	09195	23096	1 0
-	Co-sine.				09204	23078	
	√v-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Sectant.	M.

### 144 Artificial Sines, Tang. and Sec. 36 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.76922	9.90796	9.86126	10.13874	10.09204	10.23078	60
1	76939	90787	86153	13847	09213	23061	59
2	76957	90777	86179	13821	09223	23043	58
3	76974	90768	86206	13794	09232	23026	57
4 5	76991 77009	90759 90750	86232 86259	13768 13741	09241 09250	23009 22991	56 55
6	77026	90741	86285	13715	09259	22974	54
7	77043	90731	86312	13688	09269	22957	53
8	77061	90722	86338	13662	09278	<b>22</b> 939	52
9	77078	90713	86365	13635	09287	22922	51
10	9.77095	9.90704	9 96392	10.13608	10.09296	10.22905	50
11 12	77112 77130	90694 90685	86448	13582	09306	22888 22870	49 48
13	77147	90676	86471	13555 13529	09315 09324	22853	47
14	77164	90667	86498	13502	09333	22836	46
15	77181	90657	86524	13476	09343	22819	45
16	77199	90648	86551	13449	09352	22801	44
17 18	77216 77233	90639 90630	86577	13423	09361	22784 22767	43
19	77250	90620	86603 86630	13397 13370	09370 09380	22750	41
20	9.77268	9.90611	9.86656	10.13344	10.09389	10.22732	40
21	77285	90602	86683	13317	09398	22715	39
22	77302	90592	86709	13291	09408	22698	38
23	77319	90583	86736	13264	09417	22681	37
24 25	77336 77353	90574 90565	86762 86789	13238 13211	09426 09435	22664 22647	36 35
26	77370	90555	86815	13185	09445	22630	34
27	77387	90546	86842	13158	09454	22613	33
28	77405	90537	86868	13132	09463	22595	32
29	77422	90527	86894	13106	09473	22578	31
30	9.77439	9.90518	9.86921	10.13079	10.09482	10.22561	30
31 32	77456 77473	90509 90499	86947 86974	13053 13026	09491 09501	22544 22527	29 28
33	77490	90490	87000	13000	09510	22510	27
34	77507	90480	87027	12973	09520	22493	26
35	77524	90471	87053	12947	09529	22476	25
36	77541	90462	87079	12921	09538	22459	24
37 38	77558 77575	90452 90443	87106 87132	12894 12868	09548 09557	22442 22425	22
39	77592	90434	87158	12842	09566	22408	21
40	9.77609	9.90424	9.87185	10.12815	10.09576	10.22391	20
41	77626	90415	87211	12789.	09585	22374	19
42	77643	90405	87238	12762	09595	22357	18
43 44	77660 77677	90396 90386	87264	12736	09604	22340 22323	17 16
45	77694	90377	87290 87317	12710 12683	09614 09623	22323	15
46	77711	90368	87343	12657	09632	22289	14
47	77728	90358	87369	12631	09642	22272	13
48	77744	90349	87396	12604	09651	22256	12
49	77761	90339	87422	12578	09661	22239	11
50 51	9.77778 77795	9.90330 90320	9.87448 87475	10.12552 12525	10.09670 09680	10.22222 22205	10
52	77812	90320	87501	12323	09689.		8
53	77829	90301	87527	12473	09699	22171	7
54	77846	90292	87554	12446	09708	22154	6 5
55	77862	90282	87580	12420	09718	22138	
56 57	77879 77896	90273 90263	87606	12394 12367	09727 09737	22121 22104	3
58	77913	99254	87633 87659	12341	09746	22087	2
59	77930	90244	87685	12315	09756	22070	ĩ
60	77946	<b>9923</b> 5	87711	12289	09765	22054	0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.77946	9.90235	9.87711	10.12289	10.09765	10.22054	60
ĭ	77963	90225	87738	12262	09775	22037	59
2	77980	90216	87764	12236	09784	22020	58
3	77997	90206	87790	12210	09794	22003	57
4	78013	90197	87617	12183	09803	21987	56
5	78030	90187	87843	12157	09813	21970	55
67	78047 78063	90178 90168	87869 87895	12131 12105	09822 09832	21953 21937	54 53
8	78080	90159	87922	12078	09841	21920	52
9	78097	90149	87948	12052	09851	21903	51
10	9.78113	9.90139	9.87974	10.12026	10.09861	10.21887	50
11	78130	90130	88000	12000	09870	21870	49
12	78147	90120	88027	11973	09880	21853	48
13	78163	90111	88053	11947	09889	21837	47
14 15	78180	90101	88079	11921	09899	21820	46
16	78197 78213	90091 90082	88105 88131	11895 11869	09909 09918	21803 21787	45
17	78230	90072	88158	11842	09928	21770	43
18	78246	90063	88184	11816	09937	21754	42
19	78263	90053	88210	11790	09947	21737	41
20	9.78280	9.90043	9.88236	10.11764	10.09957	10.21720	40
21	78296	90034	88262	11738	09966	21704	39
22 23	78313	90024	88289	11711	09976	21687	38
23 24	78329 78346	90014 90005	88315 88341	11685	09986	21671	37
25	78362	89995	88367	11659 11633	09995 10005	21654 21638	35
26	78379	89985	88393	11607	10015	21621	34
27	78395	89976	88420	11580	10024	21605	33
28	78412	89966	88446	11554	10034	21588	32
29	78428	89956	88472	11528	10044	21572	31
30	9.78445	9.89947	9.88498	10.11502	10.10053	10.21555	30
31 32	78461 78478	89937 899 <b>2</b> 7	88524 88550	11476 11450	10063 10073	21539 21522	29 28
33	78494	89918	88577	11430	10073	21522	27
34	78510	89908	88603	11397	10092	21490	26
<b>3</b> 5	78527	89898	88629	11371	10102	21473	25
36	78543	89888	88655	11345	10112	21457	24
37	78560	89879	88681	11319	10121	21440	23
38 39	78576 78592	89869 89859	88707 88733	11293 11267	10131	21424	22 21
40	9.78609	9.89849		10.11241	10141	21408	
41	78625	89849	9.88759 88786	11214	10.10151 10160	10.21391 21375	20 19
42	78642	89830	88812	11188	10170	21358	18
43	78658	89820	88838	11162	10180	21342	17
44	78674	89810	88864	11136	10190	21326	16
45	78691	89801	88890	11110	10199	21309	15
46 47	78707 78723	89791 89781	88916 88942	11084	10209 10219	21293 21277	14
48	78739	89771	88968	11058 110 <b>32</b>	10219	21277	12
49	78756	89761	88994	11006	10239	21244	iî
50	9.78772	9.89752	9.89020	10.10980	10.10248	10.21228	10
51	78788	89742	89046	10954	10258	21212	9
52	78805	89732	89073	10927	10268	21195	8
53	78821	89722	89099	10901	10278	21179	7
54	78837 78853	89712	89125	10875	10288	21163	6
55 56	78869	89702 89693	89151 89177	10849 108 <b>23</b>	10298 10307	21147 21131	4
57	78886	89683	89203	10023	10307	21131 21114	3
58	78902	89673	89229	10771	10327	21098	2
59	78918	89663	89255	10745	10337	21062	1
60	· 78934	89653	<b>892</b> 81	10719	10347	21066	0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M,

### 146 Artificial Sines, Tang. and Sec. 38 Degrees.

						<u> </u>	
M.	Sine.	Co-sine.	Taugent.	Co-tang.	Secant.	Co-secant	
0	9.78934	9.89653	9.89281	10.10719	10.10347	10.21066	60
1	78950	89643	89307	10693	10357	21050	59
2	78967	89633	89333	10667	10367	21033	58
3 4	78983 78999	89624 89614	89359 89385	10641 10615	10376 10386	21017 21001	57 56
5	79015	89604	89411	10515	10396	20985	55
6	79031	89594	89437	10563	10406	20969	54
7	79047	89584	89463	10537	10416	20953	53
8	79063	89574	89489	10511	10426	20937	52
9	79079	89564	89515	10485	10436	20921	51
10	9.79095	9.89554	9.89541	10.10459	10.10446	10.20905	50
11	79111	89544	89567	10433	10456	20889	49
12	79128	89534	89593	10407	10466	20872	48
13	79144	89524	89619	10381	10476	20856	47
14	79160	89514	89645	10355	10486	20340	46
15	79176	89504	89671	10329	10496	20824	45
16 17	79192 79208	89495 89485	89697	10303	10505	20808 20792	44
18	79208	89485 89475	89723 89749	10277	10515	20792	43
19	79240	89465	89775	10251 10225	10525 10535	20760	41
20	9.79256	9.89455	9.89801	10.10199	10.10545	10.20744	40
21	79272	89445	89827	10.10199	10.10545	20728	39
22	79288	89435	89853	10147	10565	20712	38
23	79304	89425	89879	10121	10575	20696	37
24	79319	89415	89905	10095	10585	20681	36
25	79335	89405	89931	10069	10595	20665	35
26	79351	89395	89957	10043	10605	20649	34
27	79367	89385	89983	10017	10615	20633	33
28 29	79 <b>3</b> 83 79399	89375 89 <b>3</b> 64	90009 9 <del>0</del> 035	09991 09965	10625 10636	20617 20601	32
30	9.79415	9.89354	9.90061	10.09939	10.10646		30
31	79431	89344	90086	09914	10.10646	10.20585 20569	29
32	79447	89334	90112	09888	10566	20553	28
33	79463	89324	90138	09862	10676	20537	27
34	79478	89314	90164	09836	10686	20522	26
35	79494	89304	90190	09810	10696	20506·	25
36	79510	89294	90216	09784	10706	20490	24
37	79526	89284	90242	09758	10716	20474	23
38	79542	89274	90268	09732	10726	20458	22
39	79558	89264	90294	09706	10736	20442	21
40 41	9.79573	9.89254	9.90320	10.09680	10.10746	10.20427	20
42	79589 79605	89244 89233	90346 90371	09654 09629	10756 10767	20411 20395	19 18
43	79621	89223	90397	09603	10777	20379	17
44	79636	89213	90423	09577	10787	20364	16
45	79652	89203	90449	09551	10797	20348	15
46	79668	89193	90475	09525	10807	20332	-14
47	79684	89183	90501	09499	10817	20316	13
48	79699	89173	90527	09473	10827	20301	12
49	79715	89162	90553	09447	10838	20285	11
50	9.79731	9.89152	9.90578	10.09422	10.10848	10.20269	10
51 52	79746	89142	90604	09396	10858	20254	9
53	79762	89132	90630	09370	10868	20238	8 7
54	79778 79793	89122 89112	90682	09344 09318	10878	20222	6
55	79809	89101	90708	09318	10899	20207 20191	5
56	79825	89091	90734	09266	10909	20175	4
57	79840	89081	90759	09241	10919	20160	3
58	79856	89071	90785	09215	10929	20144	2
59	79872	89060	90811	09189	10940	20128	1
60	79887	89050	90837	09163	10950	20113	0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

ī	M.	Sine.	Co-sine.	Tangent	Cotong	Secant.	Co-secant	
ł	0	9.79887	9.89050	9.90837	Co-tang. 10.09163	10.10950	10.20113	60
1	1	79903	89040	90863	09137	10960	20097	59
ı	2	79918	89030	90889	09111	10970	20082	- 58
ı	3	79934	89020	90914	09086	10980	20066	57
ŧ	4	<b>79950</b>	89009	90940	09060	10991	20050	56
ı	5	79965	88999	90966	09034	11001	20035	55
ł	6	79981	88989	90992	09008	11011	20019	54
ı	7	79996	88978	91018	08982	11022	20004	53
I	8 9	80012 80027	88968 88958	91043 91069	08957 08931	11032 11042	19988 19973	52 51
ı	10	9.80043	9.88948	9.91095	10.08905	10.11052	10.19957	50
ı	11	80058	88937	91121	08879	11063	19942	49
ı	12	80074	88927	91147	08853	11073	19926	48
ı	13	80089	88917	91172	08828	11083	19911	47
ı	14	80105	88906	91198	08802	11094	19895	46
ı	15	80120	88896	91224	08776	11104	19880	45
ı	16	80136	88886	91250	08750	11114	19864	44
	17 18	80151	88875	91276	08724	11125	19849 19834	43 42
	19	80166 80182	88865 88855	91301 91327	08699 08673	11135	19834	41
ı	20	9.80197	9.88844	9.91353	10.08647	10.11156	10.19803	40
	21	80213	88834	91379	08621	11166	19787	39
ł	22	80228	88824	91404	08596	11176	19772	38
ı	23	80244	88813	91430	08570	11187	19756	37
ı	24	80259	88803	91456	08544	11197	19741	36
ı	25	80274	88793	91482	08518	11207	19726	35
ı	26 27	80290	88782	91507	08493	11218	19710	34
ı	28	80305 80320	88772 88761	91533 91559	08467 08441	11228 11239	19695 19680	32
ı	29	80336	88751	91585	08415	11249	19664	31
ı	30	9.80351	9.88741	9.91610	10.08390	10.11259	10.19649	30
I	31	80366	88730	91636	08364	11270	19634	29
ı	32	80382	88720	91662	08338	11280	19618	28
ı	33	80397	88709	91688	08312	11291	19603	27
ı	34	80412	88699	91713	08287	11301	19588	26
ı	35	80428	88688	91739	08261	11312	19572	25
ı	36 37	80443 80458	88678 88668	91765	08235 08209	11322	19557	24 23
	38	80473	88657	91791 91816	08184	11332 11343	19542 19527	22
I	39	80489	88647	91842	08158	11353	19511	21
	40	9.80504	9.88636	9.91868	10.08132	10.11364	10.19496	20
	41	80519	88626	91893	08107	11374	19481	19
۱	42	80534	88615	91919	08081	11385	19466	18
ı	43	80550	88605	91945	08055	11395	19450	17
ı	44	80565	88594	91971	08029	11406	19435	16
ı	45 46	80580	88584	91996	08004	11416	19420	15 14
ı	40	80595 80610	88573 88563	92022 92048	07978 07952	11427 11437	19405 19390	13
۱	48	80625	88552	92073	07927	11448	19375	12
	49	80641	88542	92099	07901	11458	19359	11
	50	9.80656	9.88531	9.92125	10.07875	10.11469	10.19344	10
	51	80671	88521	92150	07850	11479	19329	9
	52	80686	88510	92176	07824	11490	19314	8
	53	80701	88499	92202	07798	11501	19299	7
H	54	80716	88489	92227	07773	11511	19284	6
ı	55	80731	88478	92253	07747	11522	19269	5 4
ı	56 57	80746 80762	88468 88457	92279 92304	07721 07696	115 <b>32</b> 11543	19254 19238	3
	58	80777	88447	92304	07670	11553	19236	2
ı	59	80792	. 88436	92356	07644	11564	19208	ĩ
ı	60	80807	88425	92381	07619	11575	19193	0
۱		Co-sine.	Sine.	Co-tang.		Co-secant	Secant.	M.
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#### 148 Artificial Sines, Tang. and Sec. 40 Degrees,

M.         Sine.         Co-sine.         Tangent.         Co-tang.           0         9.90807         9.88425         9.92381         19.07619           1         80822         88415         92407         07593           2         80837         88404         92433         07567           3         80852         88394         92458         07542           4         80867         88383         92484         07516	Secant. 10.11575 11585 11596 11606 11617 11628 11638	Co-secant 10.19193 19178 19163 19148	60 59 58
1 80822 88415 92407 07593 2 80837 88404 92433 07567 3 80852 88394 92458 07542	11585 11596 11606 11617 11628	19178 19163 19148	59
2 80837 88404 92433 07567 3 80852 88394 92458 07542	11596 11606 11617 11628	19163 19148	
3 80852 88394 92458 07542	11606 11617 11628	19148	
	` 11628		57
		19133	56
5 80882 88372 92510 07490	11690	- 19118	55
6 80897 88362 92535 07465		19103	54
7 80912 88351 92561 07439 8 80927 88340 92587 07413	11649	19088	. 53
8   80927   88340   92587   07413   9   80942   88330   92612   07388	11660 11670	19073 19058	52 51
	10.11681	10.19043	50
11 80972 88308 92663 07337	11692	19028	49
12 80987 88298 92689 07311	11702	19013	48
13 81002 88287 92715 07285	11713	18998	47
14 81017 88276 92740 07260	11724	18983	46
15 81032 88266 92766 07234	11734	18968	45
16 81047 88255 92792 07208	11745	18953	44
17	11756 11766	18939 18924	43 42
19 81091 88223 92868 07132	11777	18909	41
	10.11788	10.18894	40
21 81121 88201 92920 07080	11799	18879	39
<b>22</b> 81136 88191 92945 07055	11809	18864	38
23 81151 88180 92971 07029	11820	18849	37
24 81166 88169 92996 07004	11831	18834	36
25 81180 88158 93022 06978 26 81195 88148 93048 06952	11842 11852	18820 18805	35 34
27 81210 88137 93073 06927	11863	18790	33
28 81225 88126 93099 06901	11874	18775	32
29 81240 88115 93124 06876	11885	18760	31
30 9.81254 9.88105 9.93150 10.06850	10.11895	10.18746	30
31 81269 88094 93175 06825	11906	18731	29
32 81284 88083 93201 06799	11917	18716	28
33   81299   88072   93227   06773   34   81314   88061   93252   06748	11928 11939	18701 18686	27 26
35 81328 88051 93278 06722	11949	18672	25
36 81343 88040 93303 06697	11960	18657	24
37 81358 88029 93329 06671	11971	18642	23
38 81372 88018 93354 06646	11982	18628	22
39 81387 88007 93380 06620	11993	18613	21
, ,	10.12004	10.18598	20
41   81417   87985   93431   06569     42   81431   87975   93457   06543	12015 12025	18583 18569	19 18
43 81446 87964 93482 06518	12025	18554	17
44 81461 87953 93508 06492	12047	18539	16
45 81475 87942 93533 06467	12058	18525	15
46 81490 87931 93359 06441	12069	18510	14
47   81505   87920   93584   06416   48   81519   87909   93610   06390	12080	18495	13
48	12091 12102	18481 18466	12 11
	10.12113	10.18451	10
51 81563 87877 93687 06313	12123	18437	9
52 81578 87866 93712 06288	12134	18422	8
53 81592 87855 93738 06262	12145	18408	7
54 81607 87844 93763 06237	12156	18393	6
55 81622 87833 93789 06211	12167	18378	5
56 81636 87822 93814 06186 57 81651 87811 93840 06160	12178	18364	3
57 81651 87811 93840 06160 58 81665 87800 93865 06135	12189 12200	18349 18335	2
59 81680 87789 93891 06109	12211	18320	ĩ
<b>90</b> 81694 87778 93916 06084	12222	18306	0
Co-sine. Sine. Co-tang. Tangent.	Co-secant	Secant.	M.

1	Sine.	Cogino	Tongent	Co-tang.	Secant.	Co-secant	
M. 0	9.81694	9.87778	9.93916	10.06084	10.12222	10.18306	60
1	81709	87767	93942	06058	12233	18291	59
2	81723	87756	93967	06033	12244	18277	58
3	81738	87745	9399 <b>3</b>	`06007	1 <b>225</b> 5	18262	57
4	81752	87734	94018	05982	12266	18248	56
5	81767	87723	94044	05956	12277	18233	55
6	81781	87712	94069	05931	12288	18219	54 53
. 7	81 <b>796</b> 81810	87701 87690	94095 94120	05905 05880	12299 12310	18204 18190	52
9	81825	87679	94146	05854	12321	18175	51
10	9.81839	9.87668	9.94171	10.05829	10.12332	10.18161	50
11	81854	87657	94197	05803	12343	18146	49
12	81868	87646	94222	05778	12354	18132	48
13	81882	87635	94248	05752	12365	18118	47
14	81897	87624	94273	05727	12376	18103	46
15	81911	87613	94299	05701	12387	18089	45
16	81926	87601	94324	05676	12399	18074	44
17 18	81940	87590	94350 94375	05650	12410 12421	18060 18045	42
19	81955 819 <b>69</b>	87579 87568	94401	056 <b>2</b> 5 05599	12432	18031	41
20	9.81983	9.87557	9.94426	10.05574	10.12443	10.18017	40
20 21	81998	87546	9.94420	05548	12454	18002	39
22	82012	87535	94477	05523	12465	17988	38
93	82026	87524	94503	05497	12476	17974	37
24	82041	87513	94528	05472	12487	17959	36
25	82055	87501	94554	05446	12499	17945	35
26	82069	87490	94579	05421	12510	17931	34
27	82084	87479	94604	05396	12521	17916	33 32
28 29	82098 82112	87468 87457	94630 94655	05370 05345	12532 12543	17902 17888	31
B							30
30 31	9.82126 82141	9.87446 87434	9.94681 94706	10.05319 05294	10.12554 12566	10.17874 17859	29
32	82155	87423	94732	05294	12577	17845	28
33	82169	87412	94757	05243	12588		27
34	82184	87401	94783	05217	12599	17816	26
35	82198	87390	94808	05192	12610	17802	25
36	82212	87378	94834	05166	12622		24
37	82226	87367	94859	05141	12633		23
38 39	82240 82255	87356 87345	94884	05116	12644		22 21
			94910	05090	12655	17745	
40 41	9.82269 82283	9.87334 87322	9.94935	10.05065	10.12666	10.17731	20 19
42	82297	87322 87311	94961 94986	05039 05014	12678 12689	17717 17703	18
43	82311	87300	95012	04988	12700	17689	17
44	82326	87288	95037	04963	12712	17674	16
45	82340	87277	95062	04938	12723	17660	15
46	82354	87266	95088	04912	12734	17646	14
47	82368	87255	95113	04887	12745	17632	13
48 49	82382 82396	87243	95139	04861	12757	17618	12
I		87232	95164	04836	12768	17604	
50 51	9.82410 82424	9.87221 87209	9.95190	10.04810	10.12779 12791	10.17590	10
52	82424 82439	87209 87198	95215 95240	04785 04760	12802	17576 17561	8
53	82453	87187	95240	04700	12802	17547	7
54	82467	87175	95291	04709	12825	17533	6
55	82481	87164	95317	04683	12836	17519	5
56	82495	87153	95342	04658	12847	17505	4
57	82509	87141	95368	04632	12859	17491	3
58	82523	87130	95393	04607	12870	17477	2
59	82537	87119	95418	04582	12881	17463	. 1
60	82551	87107	95444	04556	12893	17449	. 0
	Co-sine.	Sine.	Co-tang.	Tangent.	Co-secant	Secant.	M.

#### 150 Artificial Sines, Tang. and Sec. 42 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.82551	9.87107	9.95444	10.04556	10.12893	10.17449	60
1	82565	87096	95469	04531	12904	17435	59
2 3	82579 82593	87085 87073	95495 955 <b>2</b> 0	04505 04480	12915 12927	17421 17407	58 57
4	82607	87062	95545	04455	12938	17393	56
5	82621	87050	95571	04429	12950	17379	55
6	82635	87039	95596	04404	12961	17365	54
7	82649	87028	95622	04378	12972	17351	53
8 9	82663 82677	87016 97005	95647	04353 04328	12984	17337 17323	52
10	9.82691	9.86993	95672	10.04202	12995 10.13007	10.17309	51
11	82705	86982	9.95698 95723	04277	13018	17295	50 49
12	82719	86970	95748	04252	13030	17281	48
13	82733	86959	95774	04226	13041	17267	47
14	82747	86947	95799	04201	13053	17253	46
15	82761	86936	95825	04175	13064	17239	45
16 17	82775 82788	86924 8691 <b>3</b>	95850	04150	13076 13087	17225 17212	44 43
18	82802	86902	95875 95901	04125 04099	13087	17198	43
19	82816	86890	95926	04074	13110	17184	41
20	9.82830	9.86879	9.95952	10.04048	10.13121	10.17170	40
21	82844	86867	95977	04023	13133	17156	39
22	82858	86855	96002	03998	13145	17142	38
23	82872	86844	96028	03972	13156	17128	37
24 25	82885 82899	86832 86821	96053 96078	03947 03922	13168 13179	17115 17101	36 35
26	82913	86809	96104	03896	13191	17087	34
27	82927	86798	96129	03871	13202	17073	33
28	82941	86786	96155	03845	13214	17059	32
29	82955	86775	96180	03820	13225	17045	31
30	9.82968	9.86763	9.96205	10.03795	10.13237	10.17032	30
31 32	82982	86752	96231	03769 03744	13248	17018 17004	29 28
33	82996 83010	86740 86728	96256 96281	03719	13260 13272	16990	27
34	83023	86717	96307	03693	13283	16977	26
35	83037	86705	96332	03668	13295	16963	25
36	83051	86694	96357	03643	13306	16949	24
37 38	830 <b>6</b> 5 83078	86682	96383	03617 03592	13318 13330	16935 16922	23
39	83092	86670 86659	96408 96433	03567	13341	16908	21
40	ਭ.83106	9.86647	9.96459	10.03541	10.13353	10.16894	20
41	83120	86635	96484	03516	13365	16880	19
42	83133	86624	96510	03490	13376	16867	18
43	83147	86612	96535	03465	13388	16853	17
44	83164	86600	96560	03440	13400	16839	16
45 46	83174 83188	86589 86577	96586 96611	03414 03389	13411 13423	16826 16812	15 14
47	83202	86565	96636	03364	13435	16798	13
48	83215	86554	96662	03338	13446	16785	12
49	83229	86542	96687	03313	13458	16771	11
50	9.8 <b>3242</b>	9.86530	9.96712	10.03288	10.13470	10.10758	10
51	83256	86518	96738	03262	13482	16744	9
52 52	83270	86507	96763	03237	13493	16730	8
53 54	83283 83297	86495 86483	96788 96814	03212	13505 13517	16717 16703	6
55	83310	86472	96839	03161	13528	16690	5
56	83324	86460	96864	03136	13540	16676	4
57	83338	86448	<b>98</b> 890	03110	13552	16662	3
58	83 <b>3</b> 51	86436	98915	03085	13564	16649	2
59 60	83365 83378	86425 86413	96940 96966	03060 03034	13575 13587	16635 16622	1 0
	Co-sine.	Sine.	Co-tang.		Co-secant		M.
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ĺν	1.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
<b>-</b>	0	9.83378	9.86413	9.96966	10.03034	10.13587	10.16622	60
	1	83392	86401	96991	03009	13599	16608	59
	2	83405	86389	97016	02984	13611	16595	58
ı	3	83419	86377	97042	02958	13623	16581	57
	4	83432	86366	97067	02933	13634	16568	56
	5	83446	86354	97092	02908	13646	16554	55
	6	83459	86342	97118	02882	13658	16541	54
	7 8	83473 83486	86330 86318	97143 97168	02857 02832	13670 13682	16527 16514	53 52
	9	83500	86306	97193	02807	13694	16500	51
B1	0	9.83513	9.80295	9.97219	10.02781	10.13705	10.16487	50
	1	83527	86283	9.97219	02756	13717	16473	49
	2	83540	86271	97269	02731	13729	16460	48
	3	83554	86259	97295	02705	13741	16446	47
	4	83567	86247	97320	02680	13753	16433	46
1	5	83581	86235	97345	02655	13765	16419	45
	6	83594	86223	97371	02629	13777	16406	44
	7	83608	86211	97396	02604	13789	16392	43
	8	83621	86200	97421	02579	13800	16379	42
8L	9	83634	86188	97447	02553	13812	16366	41
	0.	9.83648	9.86176	9.97472	10.02528	10.13824	10.16352	40
	1	83661	86164	97497	02503	13836	16339	39
	2 3	83674 83688	86152 86140	975 <b>23</b> 97548	02477	13848 13860	16326 16312	38
	4	83701	86128	97573	02452	13872	16299	36
	5	83715	86116	97598	02402	13884	16285	35
2	6	83728	86104	97624	02376	13896	16272	34
	7	83741	86092	97649	02351	13908	16259	33
	8	83755	86080	97674	02326	13920	16245	32
1	9	83768	86068	97700	0,2300	13932	16232	31
	0	9.83781	9.86056	9.97725	10.02275	10.13944	10.16219	30
	1	83795	86044	97750	02250	13956	16205	29
	2	83808	86032	97776	02224	13968	16192	28
	3 4	83821 83834	86020 86008	97801	02199 02174	13980 13992	16179	27
	5	83848	85996	97826 97851	02174	14004	16166 16152	25
	6	83861	85984	97877	02123	14016	16139	24
3		83874	85972	97902	02098	14028	16126	23
3	8	83887	85960	97927	02073	14040	16113	22
3	9	83901	85948	97953	02047	14052	16099	21
	0	9.83914	9.85936	9.97978	10.02022	10.14064	10.16086	20
	1	83927	85924	98003	01997	14076	16073	19
	2	83940	85912	98029	01971	14088	16060	18
	3	83954	85900	98054	01946	14100	16046	17
	4	83967 83980	85888 95978	98079	01921	14112	16033	16
	6	83993	85876 85864	98104 98130	01896 01870	14124 14136	16020 16007	15 14
	7	84006	85851	98155	01845	14149	15994	13
	8	84020	85839	98180	01820	14161	15980	12
	9	84033	85827	98206	01794	14173	15967	iī
5	0	9.84046	9.85815	9.98231	10.01769	10.14185	10 15954	10
	1	84059	85803	98256	01744	14197	15941	9
	2	84072	85791	98281	01719	14209	15928	8
5	3	84085	85779	98307	01693	14221	15915	7
	4	84098	85766	98332	01668	14234	15902	6
	5	84112	85754	98357	01643	14246	15888	5
	6	84125 84138	85742	98383	01617	14258	15875	3
	8	84151	85730 85718	98408 98433	01592 01567	14270 14282	15862 15849	2
	9	84164	85706	98458	01542	14202	15836	1
	Ö	84177	85693	98484	01518	14307	15823	ó
		Co-sine.	Sine.		Tangent.		Secant.	М.
		-y-since	~	, wo wante	T drift cree	JU-eduant	vecam.	

#### 152 Artificial Sines, Tang. and Sec. 44 Degrees.

M.	Sine.	Co-sine.	Tangent.	Co-tang.	Secant.	Co-secant	
0	9.84177	9.85693	9.98484	10.01516	10.14307	10.15823	60
1	84190	85681 85669	98509 98534	01491 01466	14319 14331	15810	59
2 3	84203 84216	85657	98560	01440	14343	15797 15784	58 57
4	84229	85645	98585	01415	14355	15771	56
5	84242	85632	98610	01390	14368	15758	55
6	84255	85620	98635	01365	14380	15745	54
7	84269	85608	98661	01339	14392	15731	53
8	84282 84295	85596 85583	98686 98711	01314 01289	14404 14417	15718 15705	52 51
10	9.84308	9.85571	9.98737	10.01263	10.14429	10.15692	50
11	84321	85559	98762	01238	14441	15679	49
12	84334	85547	98787	01213	14453	15666	48
13	84347	85534	98812	01188	14466	15653	47
14	84360	· 85522	98838	01162	14478	15640	46
15 16	84373 84385	85510 85 <b>49</b> 7	988 <b>63</b> 98888	01137	14490 145 <b>03</b>	15627	45
17	84398	85485	98913	0111 <b>2</b> 0108 <b>7</b>	14515	15615 15602	44 43
18	84411	85473	98939	01061	14527	15589	42
19	84424	85 <b>46</b> 0	98964	01036	14540	15576	41
20	9.84437	9.85448	9.98989	10.01011	10.14552	10.15563	40
21	84450	85 <b>43</b> 6	99015	00985	14564	15550	39
22	84463	85423	99040	00960	14577	15537	38
23 24	84476 84489	85411 85399	99065 99090	00935 00910	14589 14601	15524 15511	37 36
25	84502	85386	99116	00884	14614	15498	35
26	84515	85374	99141	00859	14626	15485	34
27	84528	85361	99166	00834	14639	15472	33
28	84540	85349	99191	00809	14651	15460	32
29	84553	85337	99217	00783	14663	15447	31
30	9.84566	9.85324	9.99242	10.00758	10.14676	10.15434	30
31 32	84579 84592	85 <b>312</b> 85 <b>2</b> 99	99267 99 <b>29</b> 3	00733 00707	14688 14701	15421 15408	29 28
33	84605	85287	. 99318	00682	14713	15395	27
34	84618	85274	99343	00657	14726	15382	26
35	84630	85202	99368	00632	14738	15370	25
36	84643	85250	99394	00606	14750	15357	24
37 38	84656 84669	85 <b>23</b> 7 85 <b>22</b> 5	99419 99444	00581 00556	14763 14775	15344 15331	23
39	84682	85212	99469	00531	14788	15318	21
40	9.84694	9.85200	9.99495	10.00505	10.14800	10.15306	20
41	84707	85187	99520	00480	14813	15293	19
42	84720	85175	99545	00455	14825	15280	18
43	84733	85162	99570	00430	14838	15267	17
44 45	84745 84758	85150 85137	99596 99621	00404 00379	14850 14863	15255 15242	16 15
46	84771	85125	99646	00354	14875	15242	14
47	84784	85112	99672	00328	14888	15216	13
48	84796	85100	99697	00303	14900	15204	12
49	84809	85087	99722	00278	14913	15191	11
50	9.84822	9.85074	9.99747	10.00253	10.14926	10.15178	10
51	84835	85062	99773	00227	14938	15165	8
52 53	84847 84860	85049 85037	99798 99823	00202 00177	14951 14963	15153 15140	7
54	84873	85 <b>024</b>	99848	00152	14976	15127	
55	84885	85012	99874	00126	14988	15115	. 5
56	84898	84999	99899	00101	15001	15102	4
57	84911	84986	99924	00076	15014	15089	3
5 <b>8</b> 59	849 <b>83</b> 84936	84974 84961	99949 99975	00051 000 <b>2</b> 5	150 <b>26</b> 15 <b>03</b> 9	15077 15064	2
60	84949	84949	10.00000	10.00000	15051	15051	ő
-	Co-sine.	Sine.	Co-tang.		Co-secant	Secant.	M.
	JUJIMON (	2,4200		7	. Jo Journal	. ~~~	

Coursens Windhaul

